1-16-18 5th Geo

Quick review

① $2\sqrt{3} \cdot 3\sqrt{3} =$

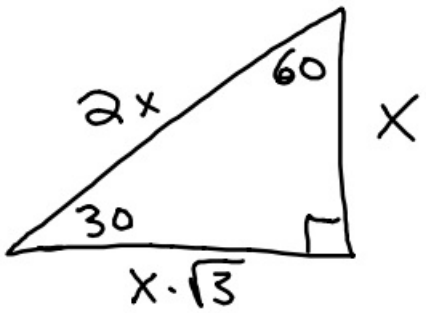
$6 \cdot 3 = 18$

② $3\sqrt{5} \cdot 4\sqrt{5}$

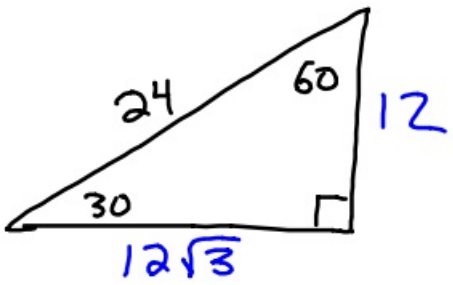
$12 \cdot 5 = 60$

③ $\frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$

④ $\frac{6}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\cancel{6}^{3}\sqrt{2}}{\cancel{2}_{1}} = 3\sqrt{2}$

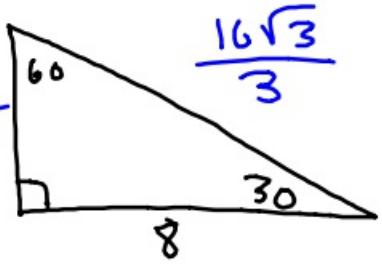


(5)



(6)

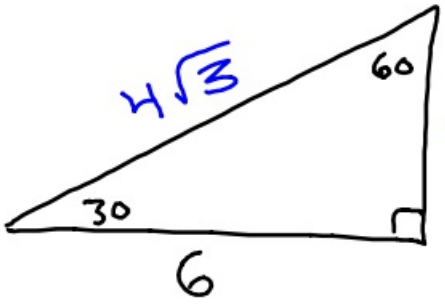
$\frac{8\sqrt{3}}{3} = \frac{8}{\sqrt{3}}$



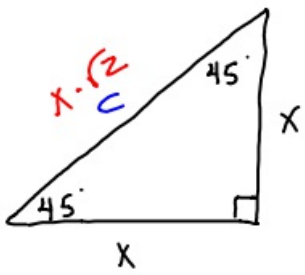
$\frac{8}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{8\sqrt{3}}{3}$

$\frac{8\sqrt{3}}{3} \cdot \frac{2}{1} = \frac{16\sqrt{3}}{3}$

(7)



$\frac{6}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{6\sqrt{3}}{3} = 2\sqrt{3}$



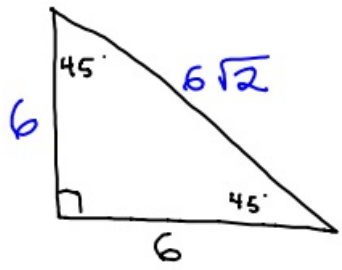
$$x^2 + x^2 = c^2$$

$$\sqrt{2x^2} = \sqrt{c^2}$$

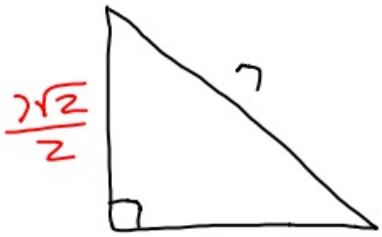
$$\sqrt{2}(x \cdot x) = c$$

$$x \cdot \sqrt{2} = c$$

(8)

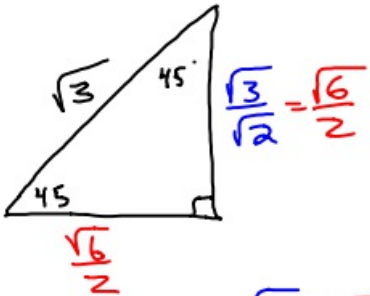


(9)



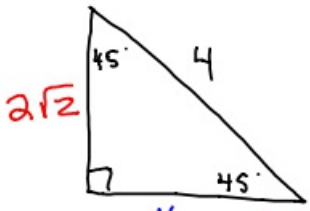
$$\frac{7}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{7\sqrt{2}}{2}$$

(10)



$$\frac{\sqrt{3}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{6}}{2}$$

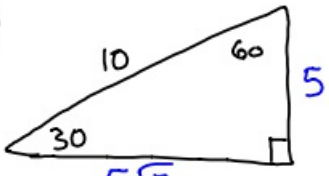
(11)



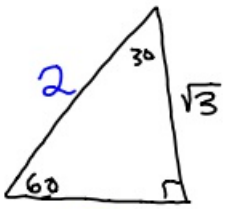
$\frac{4}{\sqrt{2}} = 2\sqrt{2}$

$\frac{4}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4\sqrt{2}}{2} = 2\sqrt{2}$

(12)

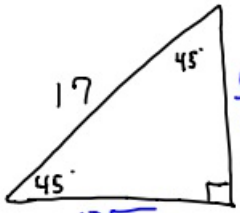


(13)



$\frac{\sqrt{3}}{\sqrt{3}} = 1$

(14)

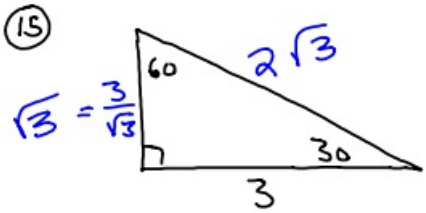


$\frac{17}{\sqrt{2}} = \frac{17\sqrt{2}}{2}$

$\frac{17\sqrt{2}}{2}$

$\frac{17}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{17\sqrt{2}}{2}$

(15)



$\sqrt{3} = \frac{3}{\sqrt{3}}$

$\frac{3}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{3\sqrt{3}}{3}$

1-16-18 6th Geo

Refresher

① $2\sqrt{3} \cdot 5\sqrt{3} =$

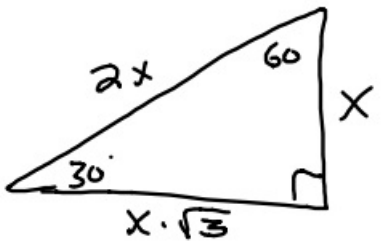
$10 \cdot 3 = 30$

② $5\sqrt{2} \cdot 6\sqrt{2}$

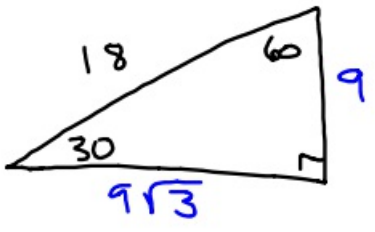
$30 \cdot 2 = 60$

③ $\frac{3}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{3\sqrt{2}}{2}$

④ $\frac{12}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\overset{4}{\cancel{12}}\sqrt{3}}{\underset{1}{\cancel{3}}} = 4\sqrt{3}$

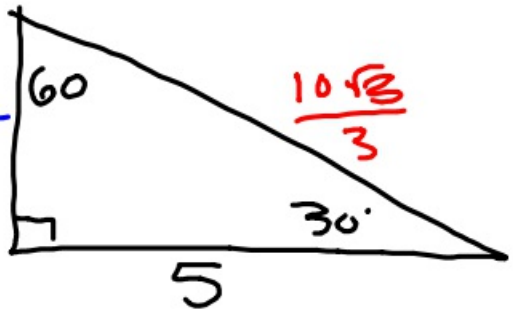


⑤



⑥

$\frac{5\sqrt{3}}{3} = \frac{5}{\sqrt{3}}$



$\frac{10\sqrt{3}}{3}$

$$\frac{5}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{5\sqrt{3}}{3}$$

$$\frac{5\sqrt{3}}{3} \cdot \frac{2}{1} = \frac{10\sqrt{3}}{3}$$

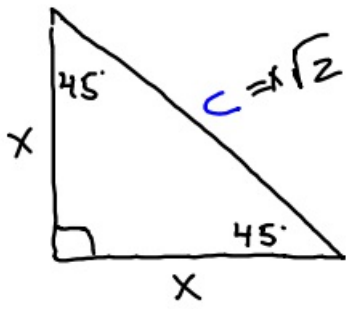
⑦

$\frac{\sqrt{15}}{3} = \frac{\sqrt{5}}{\sqrt{3}}$

$\frac{2\sqrt{15}}{3}$

$$\frac{\sqrt{5}}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{15}}{3}$$

$$\frac{\sqrt{15}}{3} \cdot \frac{2}{1} = \frac{2\sqrt{15}}{3}$$



$4x^2 + 3x^2$

$7x^2$

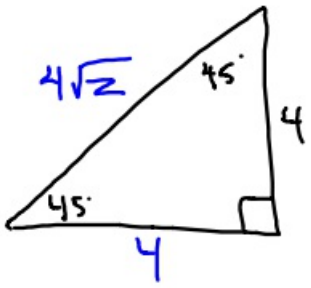
$x^2 + x^2 = c^2$

$\sqrt{2x^2} = \sqrt{c^2}$

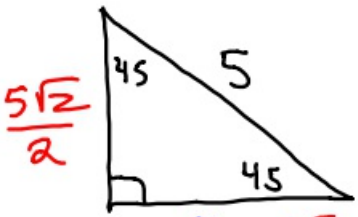
$x\sqrt{2} = c$

$x \cdot \sqrt{2} = c$

(8)



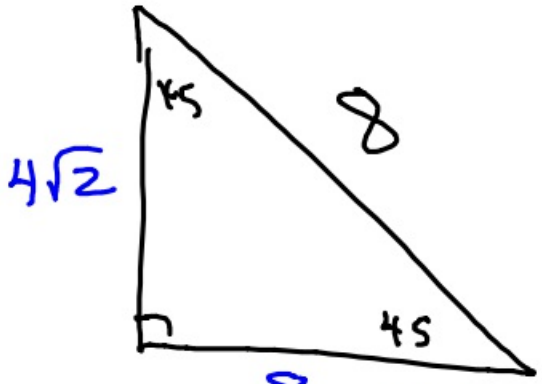
(9)



$\frac{5}{\sqrt{2}} = \frac{5\sqrt{2}}{2}$

$\frac{5}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{5\sqrt{2}}{2}$

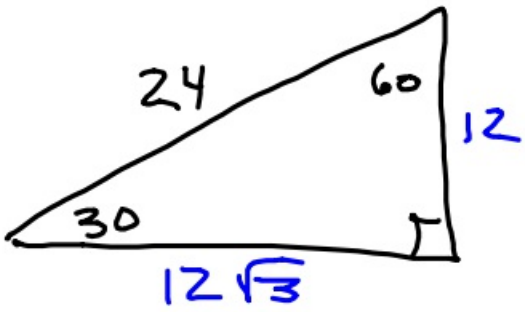
(10)



$\frac{8}{\sqrt{2}} = 4\sqrt{2}$

$\frac{8}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{8\sqrt{2}}{2} = 4\sqrt{2}$

(11)



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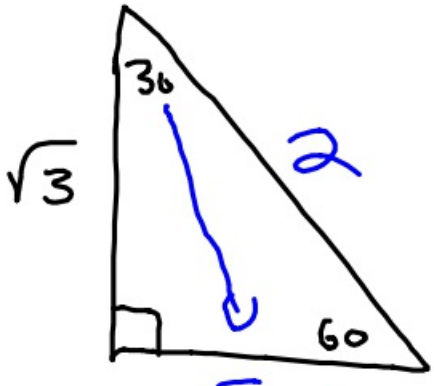

$\frac{\sqrt{3}}{\sqrt{3}} = 1$