

2-3-20 2<sup>na</sup> Geo

$$\textcircled{1} \quad \frac{n+1}{2} = \frac{n}{4}$$

$$4(n+1) = 2n$$

$$4n+4 = 2n$$
$$\begin{array}{r} -4n \\ \hline \end{array}$$

$$\frac{4}{-2} = \frac{-2n}{-2}$$

$$-2 = n$$

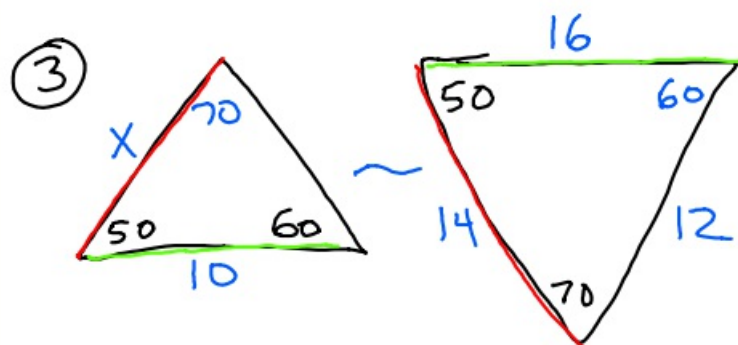
$$\textcircled{2} \quad \frac{n-3}{4} = \frac{n+1}{5}$$

$$5(n-3) = 4(n+1)$$

$$5n-15 = 4n+4$$
$$\begin{array}{r} -4n \\ \hline \end{array}$$

$$\frac{n-15 = 4}{+15 \quad +15}$$

$$n = 19$$

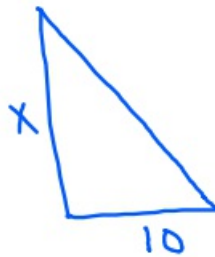


$$\frac{X}{14} = \frac{10}{16}$$

$$\frac{16X}{16} = \frac{140}{16}$$

$$X \approx 8.75$$

④ I am 6 feet tall and my shadow is 1.5 feet. If a flagpole has a 10 foot shadow, how tall is the flagpole?

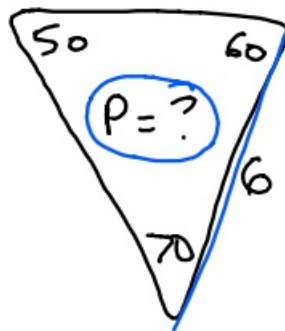
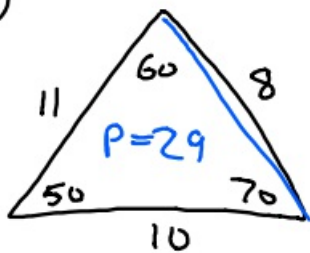


$$\frac{6}{x} = \frac{1.5}{10}$$

$$\frac{1.5x}{1.5} = \frac{60}{1.5}$$

$$x = 40$$

⑤

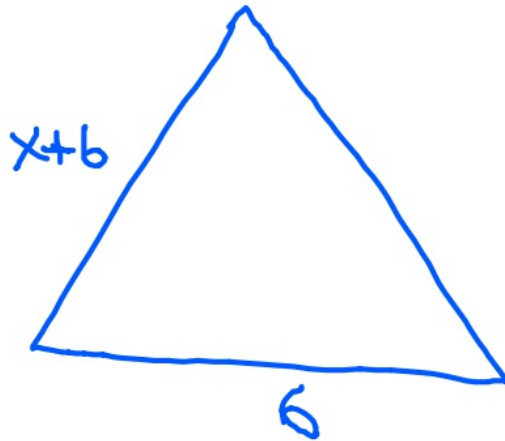
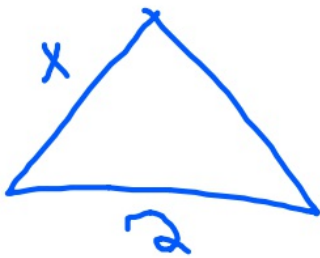
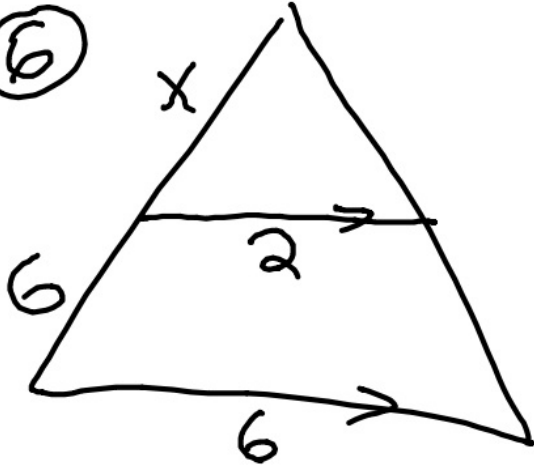


$$\frac{8}{6} = \frac{29}{P}$$

$$\frac{8P}{8} = \frac{174}{8}$$

$$P = 21.75$$

⑥



$$\frac{x}{x+6} = \frac{2}{6}$$

$$6x = 2(x+6)$$

$$6x = 2x + 12$$

$$\begin{array}{r} -2x \quad -2x \\ \hline \end{array}$$

$$4x = 12$$

$$x = 3$$