

- (A) $-2x + 3y = 10$
 ✓ (B) $x - y = -8$
 (C) $\frac{2}{3}x + y = 5$
 (D) $x + y = \frac{1}{4}$

$$12 \left[\frac{1}{4}x + \frac{2}{3}y = 5 \right]$$

$$3x + 8y = 60$$

$$\frac{12}{1} \cdot \frac{1}{4} = \frac{12}{4}$$

$$\frac{12}{1} \cdot \frac{2}{3} = \frac{24}{3}$$

$$y = \frac{1}{5}x - 2$$

$$-5 \left[-\frac{1}{5}x + y = -2 \right]$$

$$x - 5y = 10$$

slope $(8, 10) (-9, 13)$

$(-2, -8) (-4, 10)$

$(1, 4) (5, 5)$

Distance $(2, 4) (7, 1)$

$$\frac{\sqrt{\Delta x^2 + \Delta y^2}}{\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}}$$

$$\sqrt{5^2 + 3^2}$$

$$\sqrt{25 + 9}$$

$$\sqrt{34}$$

midpoint $(2, 3) (4, 13)$

$$\frac{2+4}{2}, \frac{3+13}{2}$$

$$(3, 8)$$

$(-1, 4) (3, 10)$

$$y = \frac{2}{3}x - 1$$

$$-3 \left[-\frac{2}{3}x + y = -1 \right]$$

$$2x - 3y = 3$$

$$-3 \times (-2/3)$$

$$\frac{-3}{1} \cdot \frac{-2}{3} = \frac{6}{3}$$