

# SMART START

Find the value of the missing coordinate so that the line through the points has the given slope

1) (3, 0) and (x, 2):  $m = -2/3$

$$\frac{0-2}{3-x} = \frac{-2}{3-x} = \frac{-2}{3}$$
$$\begin{array}{r} -6 + 2x = -6 \\ \hline +6 \quad +6 \\ \hline 2x = 0 \\ \frac{2x}{2} = \frac{0}{2} \end{array} \quad x = 0$$

2) (3, -5) and (5, y):  $m = 3$

$$\frac{-5-y}{3-5} = \frac{-5-y}{-2} = \frac{3}{1}$$
$$\begin{array}{r} -4-y = -6 \\ \hline +5 \quad +5 \\ \hline -y = -1 \\ \hline y = 1 \end{array}$$

Mark 6: 7 - And he called the twelve and began to send them out two by two, and gave them authority over the unclean spirits.

**JESUS**



**SHAVES**

$$\sqrt{25} \stackrel{5}{=} \sqrt{5 \cdot 5} = 5$$

$$\sqrt{5^2} = (5^2)^{\frac{1}{2}} = 5^1 = 5$$

$$\sqrt{75} \stackrel{5}{=} \sqrt{5 \cdot 5 \cdot 3} = 5\sqrt{3}$$

$$\sqrt{75x^3y^2z^4} \stackrel{5}{=} \sqrt{5 \cdot 5 \cdot 3 \cdot x \cdot x \cdot x \cdot y \cdot y \cdot z \cdot z \cdot z \cdot z}$$

$$= 5xyz^2\sqrt{3x}$$

$$\sqrt{72} \stackrel{3 \cdot 2}{=} \sqrt{3 \cdot 3 \cdot 2 \cdot 2 \cdot 2}$$

$$6\sqrt{2}$$

$$\sqrt{72} = \sqrt{36} \cdot \sqrt{2}$$

$$6\sqrt{2}$$

$$5x \cdot 7x = 5 \cdot 7 \cdot x \cdot x = 35x^2$$

$$5\sqrt{2} \cdot 7\sqrt{5} = 5 \cdot 7 \cdot \sqrt{2} \cdot \sqrt{5} = 35\sqrt{10}$$

$$5\sqrt{3} \cdot 7\sqrt{6} = 35\sqrt{18}$$

$$3 \cdot 35\sqrt{3 \cdot 3 \cdot 2}$$

$$105\sqrt{2}$$

$$\sqrt{30} = \sqrt{2 \cdot 3 \cdot 5}$$

$$1) \sqrt{40a^3b^2} = \sqrt{(2 \cdot 2 \cdot 2 \cdot 5) (a \cdot a) a (b \cdot b)} = 2ab\sqrt{10a}$$

$$2) 5\sqrt{6} \cdot 8\sqrt{6} = 40\sqrt{36} = 40\sqrt{2 \cdot 2 \cdot 3 \cdot 3} = 240$$

OR

$$40 \cdot 6 = 240$$

$$\sqrt{\frac{8}{25}} =$$

$$\sqrt{\frac{8}{50}} =$$

Rationalize the Denominator

$$\sqrt{\frac{t}{72t^3}}$$

$$3) \frac{\sqrt{12}}{\sqrt{5}}$$

$$4) \frac{\sqrt{11y}}{\sqrt{27}}$$

$$5) \frac{\sqrt{3}}{\sqrt{8}}$$



Page 590 #16-32 even