

$$\begin{aligned} 1\frac{1}{2} \times 4 &= 6 \\ 16 \times 3 &= 48 \\ \hline &54 \end{aligned}$$

$$\begin{aligned} 54^2 + 96^2 &= c^2 \\ 2916 + 9216 &= c^2 \\ \sqrt{12132} &= c \\ 110.1 &= c \\ \text{in} & \end{aligned}$$

$$\frac{110.1}{12} = \text{about } 9.2 \text{ ft.}$$

24.)

20 48 52

$$a^2 + b^2 = c^2$$

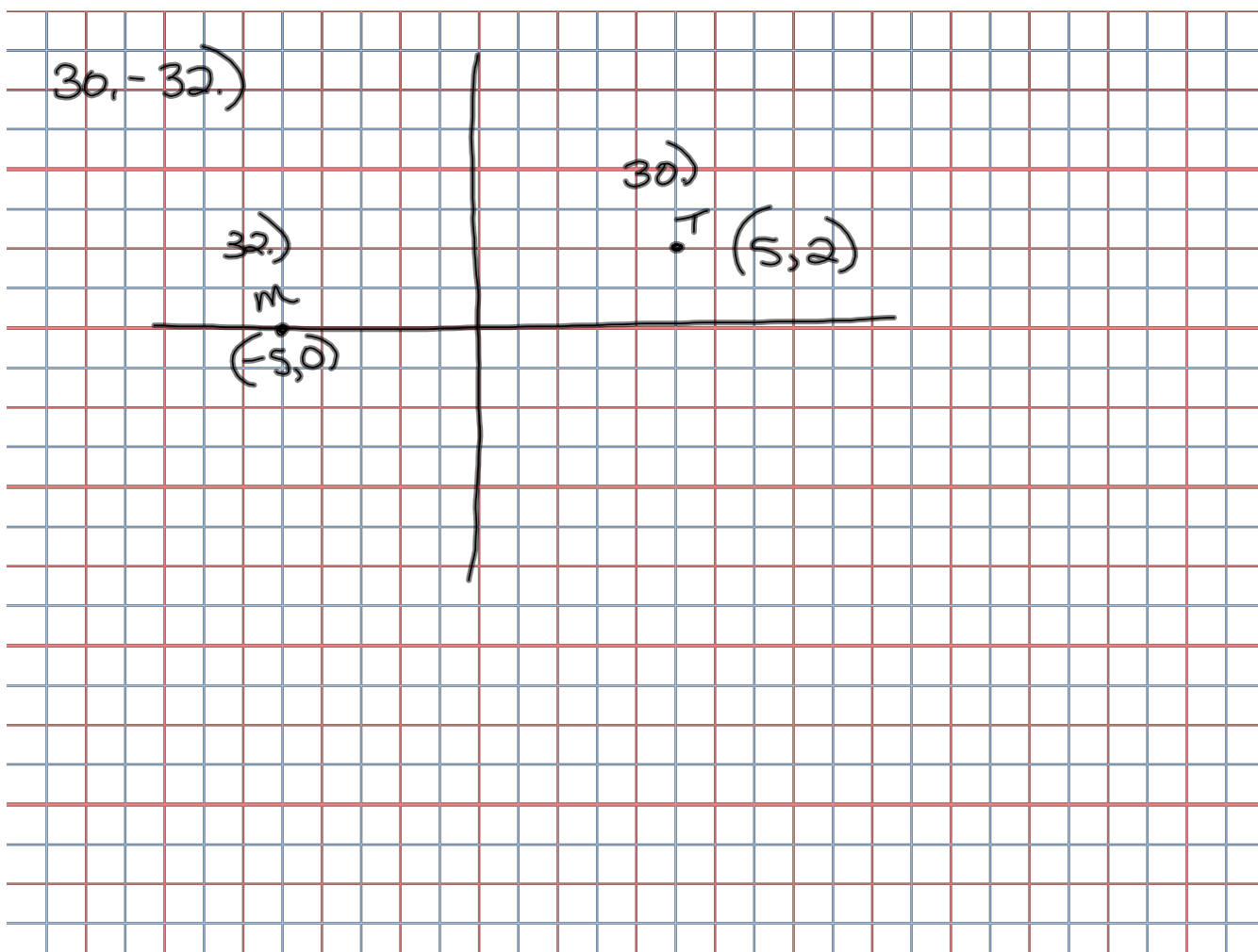
$$20^2 + 48^2 = 52^2$$

$$400 + 2304 = 2704$$

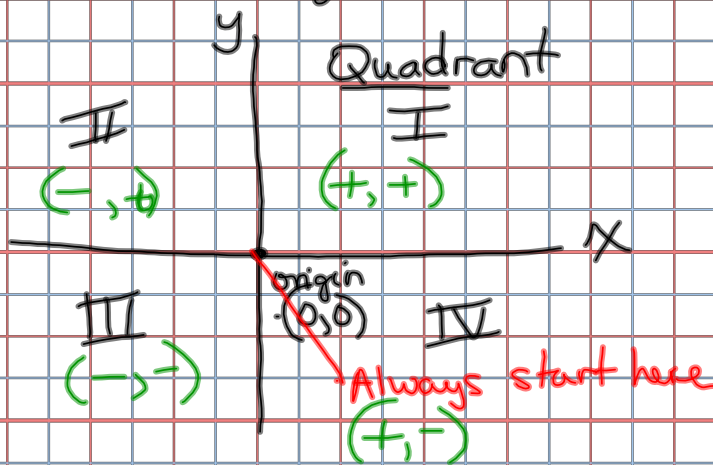
$$2704 = 2704$$



yes!



3-6 Geometry: Distance on a Coordinate Plane



Coordinate Point

(x, y)

over up
down

← →

$$3^2 + 2^2 = d^2$$

$$9 + 4 = d^2$$

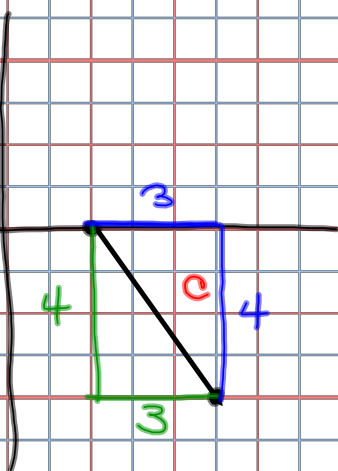
$$\sqrt{13} = \sqrt{d^2}$$

$$3.6 = d$$

about
3.6 units

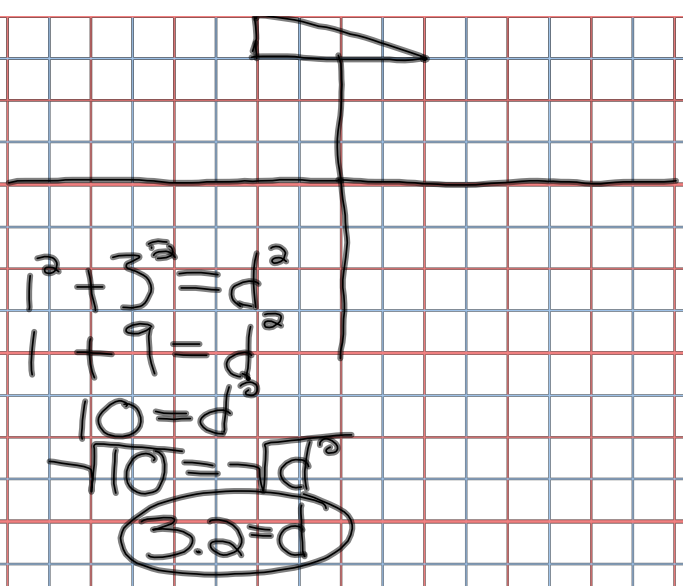
a. $(2, 0)$ $(5, -4)$

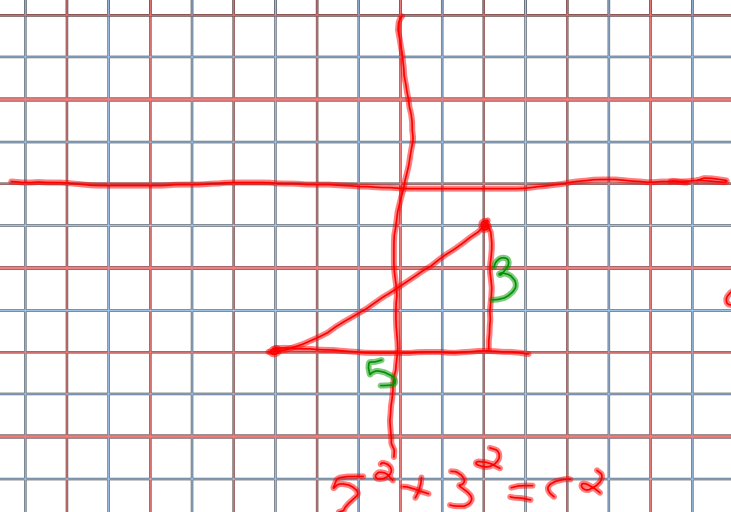
$$3^2 + 4^2 = c^2$$



$$3^2 + 4^2 = c^2$$
$$9 + 16 = c^2$$
$$\sqrt{25} = c$$
$$5 = c$$

5 units





$$5^2 + 3^2 = c^2$$
$$25 + 9 = c^2$$
$$\sqrt{34} = \sqrt{c^2}$$

8 units

$$5^2 + 3^2 = c^2$$