

3.99
169

$$\tan 45=1 = \frac{1-5m}{1-5m}$$

$m \rightarrow$ 20m x 10m x 10m

$$\rightarrow 1-5m = 1-5m$$

$$1-5m = 5+m \quad \rightarrow \quad 1-5m = 5+m$$

$$m = 1.5$$

$$m = -\frac{2}{3}$$

(3m) (10m) $\Delta=0$ (10m) $\Delta=0$ (10m) $\Delta=0$

$m = \frac{3}{2}$:

$$2x^2 + 3y^2 = 20$$

$$2x^2 + 3\left(\frac{3}{2}x + n\right)^2 = 20$$

$$2x^2 + 6.75x^2 + 9xn + 3n^2 = 20$$

$$8.75x^2 + 9xn + 3n^2 = 20$$

$$\Delta = 0$$

$$81n^2 - 35(3n^2 - 20) = 0$$

$$24n^2 = 700$$

$$n = \pm \sqrt{\frac{175}{6}}$$

$y = 1.5x \pm \sqrt{\frac{175}{6}}$ \therefore 20m x 10m

$m = -\frac{2}{3}$: $2x^2 + 3\left(-\frac{2}{3}x + n\right)^2 = 20$

$$2x^2 + \frac{4}{3}x^2 - 4xn + 3n^2 = 20$$

$$3\frac{1}{3}x^2 - 4xn + 3n^2 - 20 = 0$$

$$\Delta = 0$$

$$16n^2 - 40n^2 + 266\frac{2}{3} = 0$$

$$n = \pm \frac{10}{3} \rightarrow n = \pm \frac{10}{3}$$

$y = -\frac{2}{3}x \pm \frac{10}{3}$ \therefore 20m x 10m