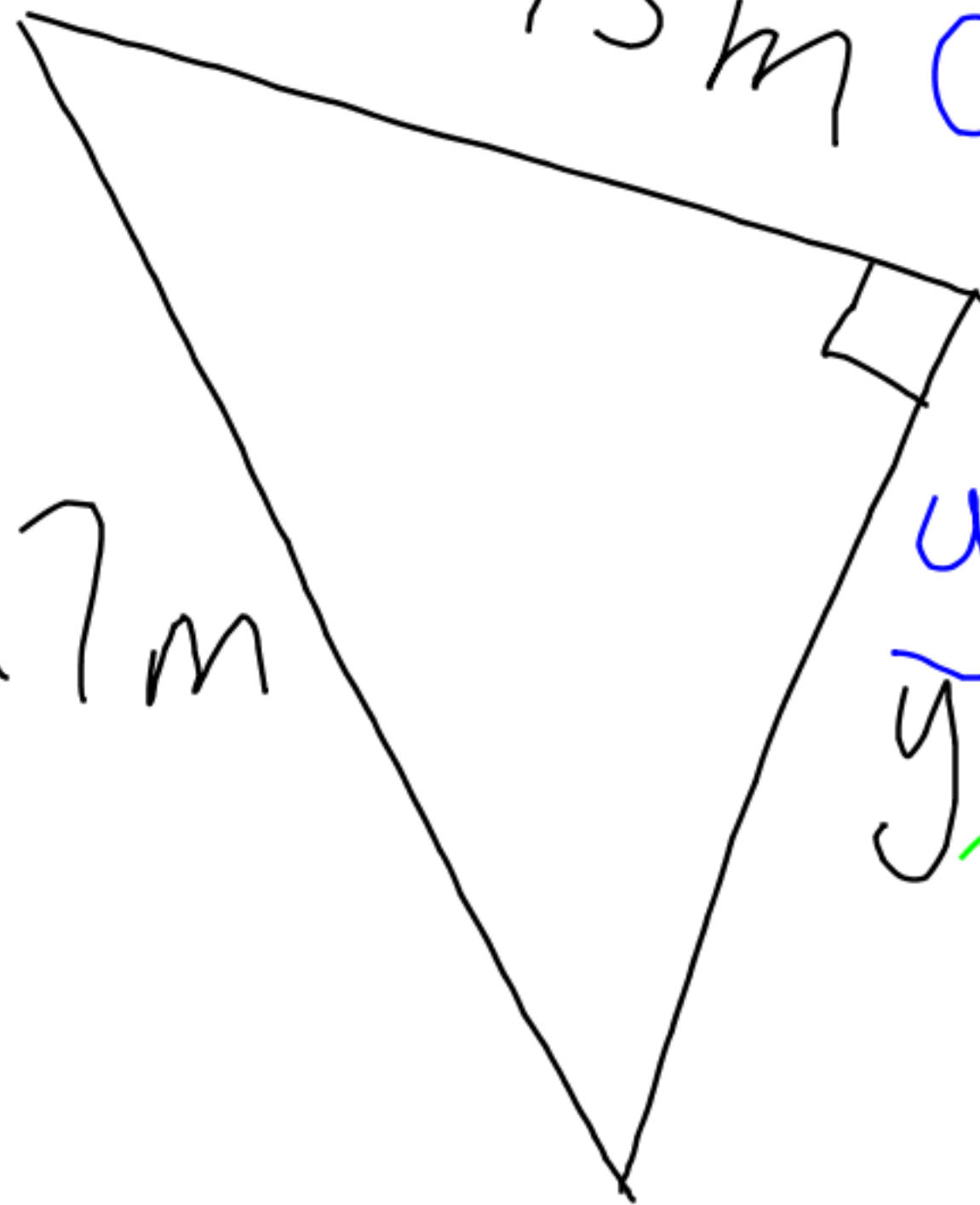


P. 2

(b)

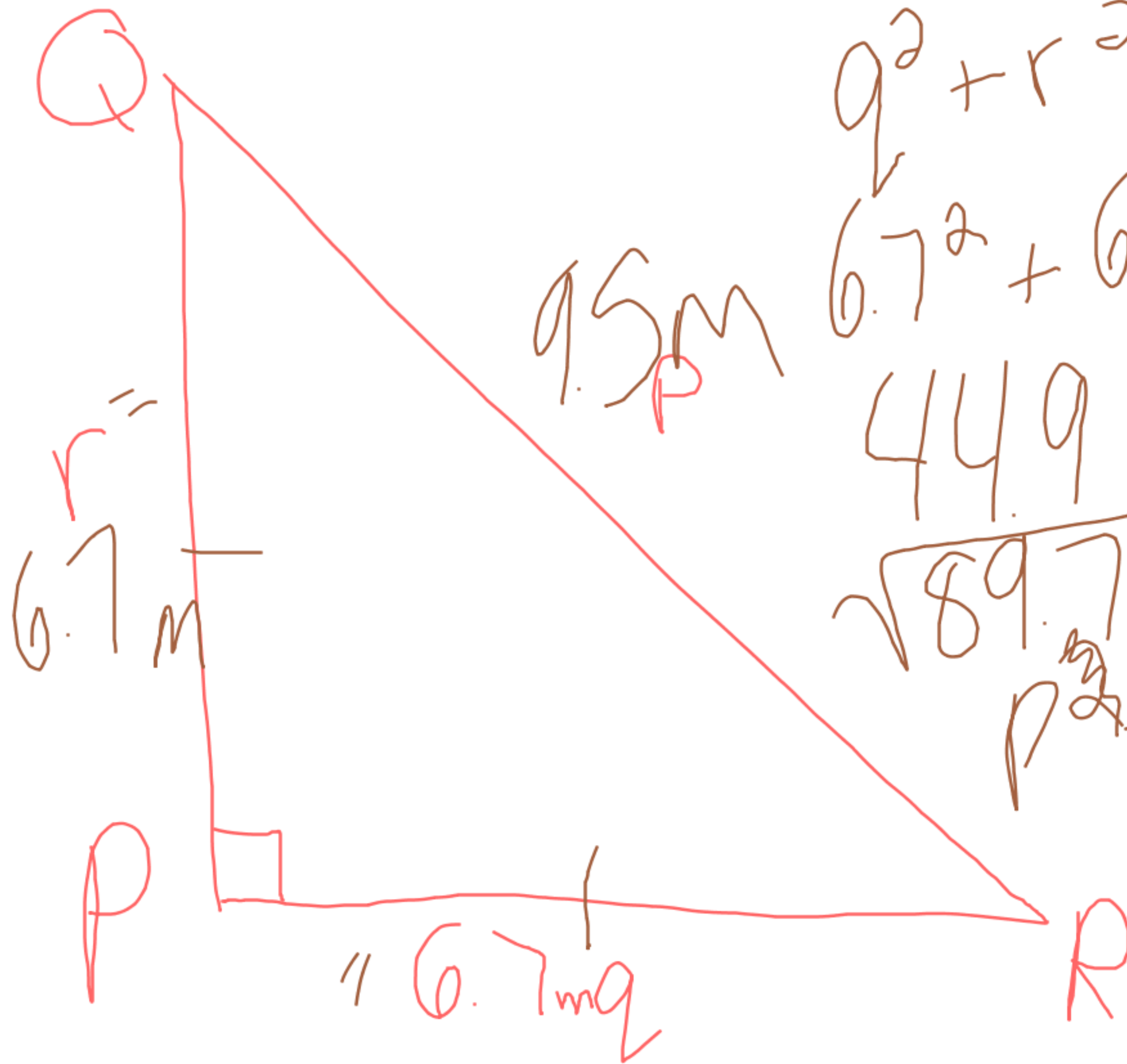
23.27m



17.45m

$$a^2 + b^2 = c^2$$
$$a^2 + (17.45)^2 = 23.27^2$$
$$\begin{array}{r} -304.5 \\ -305.5 \end{array}$$

$$y^2 + 304.5 = 541.49$$
$$y^2 = \sqrt{236.99}$$
$$y = 15.39m$$



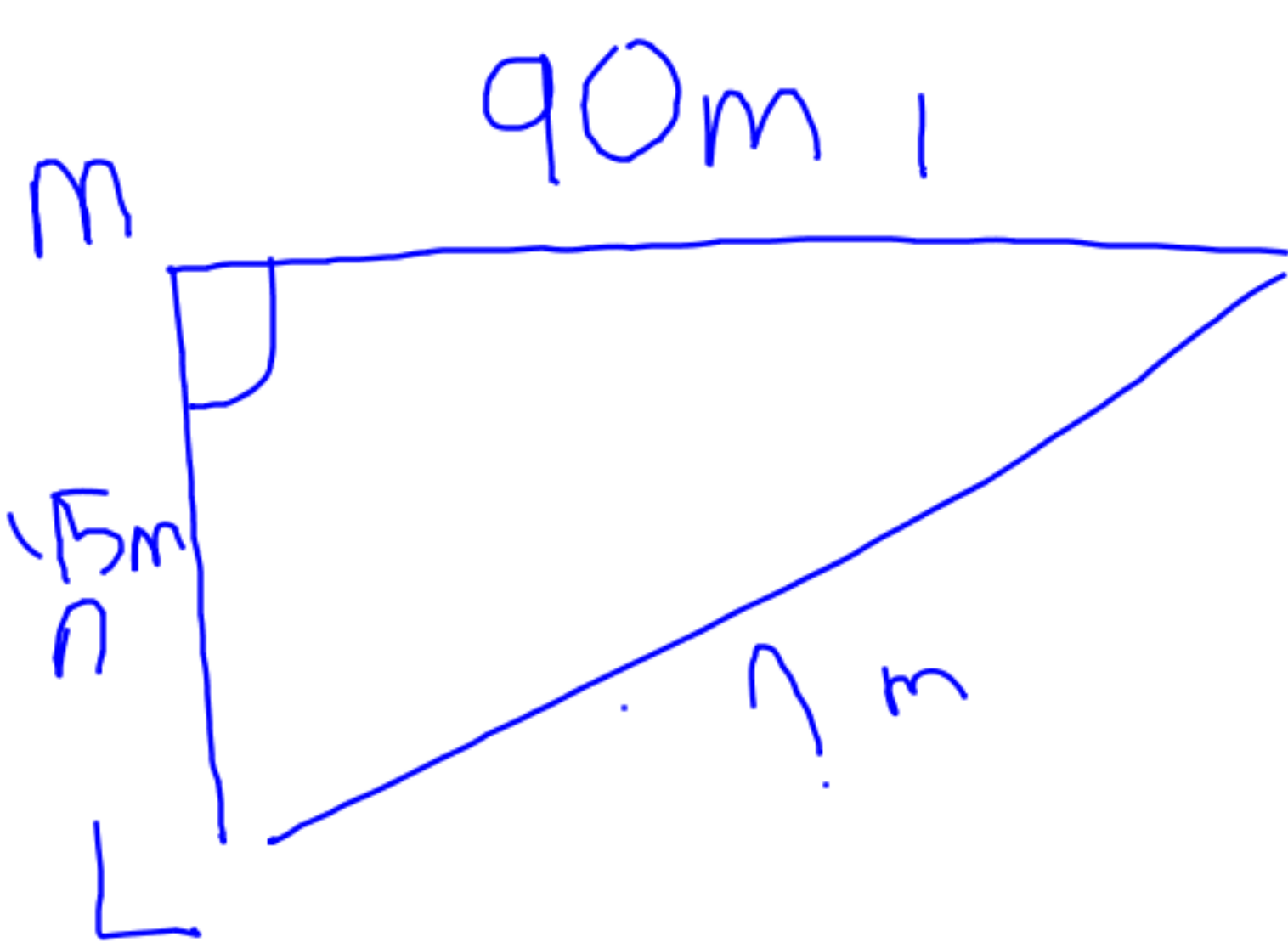
$$q^2 + r^2 = p^2$$

$$6.7^2 + 6.7^2 = p^2$$

$$44.9 + 44.9 = p^2$$

$$\sqrt{89.78} = p$$

$$p = 9.5m$$



$$n^2 + l^2 = m^2$$

$$45^2 + 90^2 = m^2$$

$$2025 + 8100 = m^2$$

$$\sqrt{10125} = m$$

$$100.6 = m$$

The length
of the diagonal is 101m

$$1 a) 7.2 \times 10 = 72 \text{ mm}$$

$$b) \frac{9215 \text{ m}}{1000} = 9.215 \text{ km}$$

$$c) 9.35 \text{ km} \times 1000 = 9350 \text{ m}$$

$$d) \frac{832 \text{ cm}}{100} = 8.32 \text{ m}$$

$$e) 879 \times 100 = 87900 \text{ cm}$$

$$f) \frac{65 \text{ mm}}{1000} = 0.065 \text{ m}$$

2. a) $7 \text{ ft.} \times 12 = 84 \text{ in.}$

b) $28 \text{ yd} \times 3 = 84 \text{ ft.}$

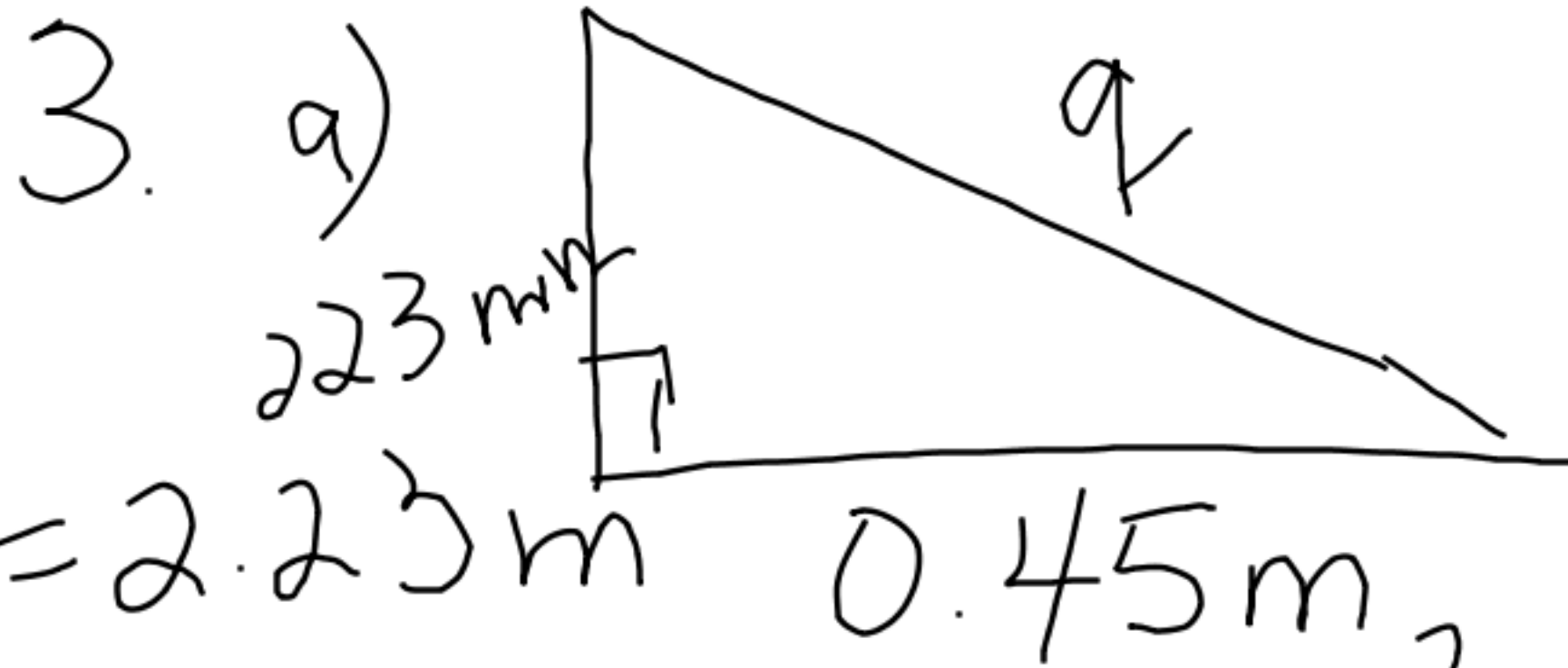
c) $8 \text{ mi} \times 5280 = 42240 \text{ ft.}$

d) $\frac{963 \text{ ft.}}{3} = 321 \text{ yd}$

e) $23 \text{ ft. } 5 \text{ in} \rightarrow \text{ in}$

$$23 \times 12 + 5 = 281 \text{ in}$$

f) $\frac{48 \text{ in}}{12} = 4 \text{ ft}$



$$a^2 + b^2 = q^2$$

$$q^2 = 0.223^2 + 0.45^2$$

$$q^2 = 0.0497 + 0.2025$$

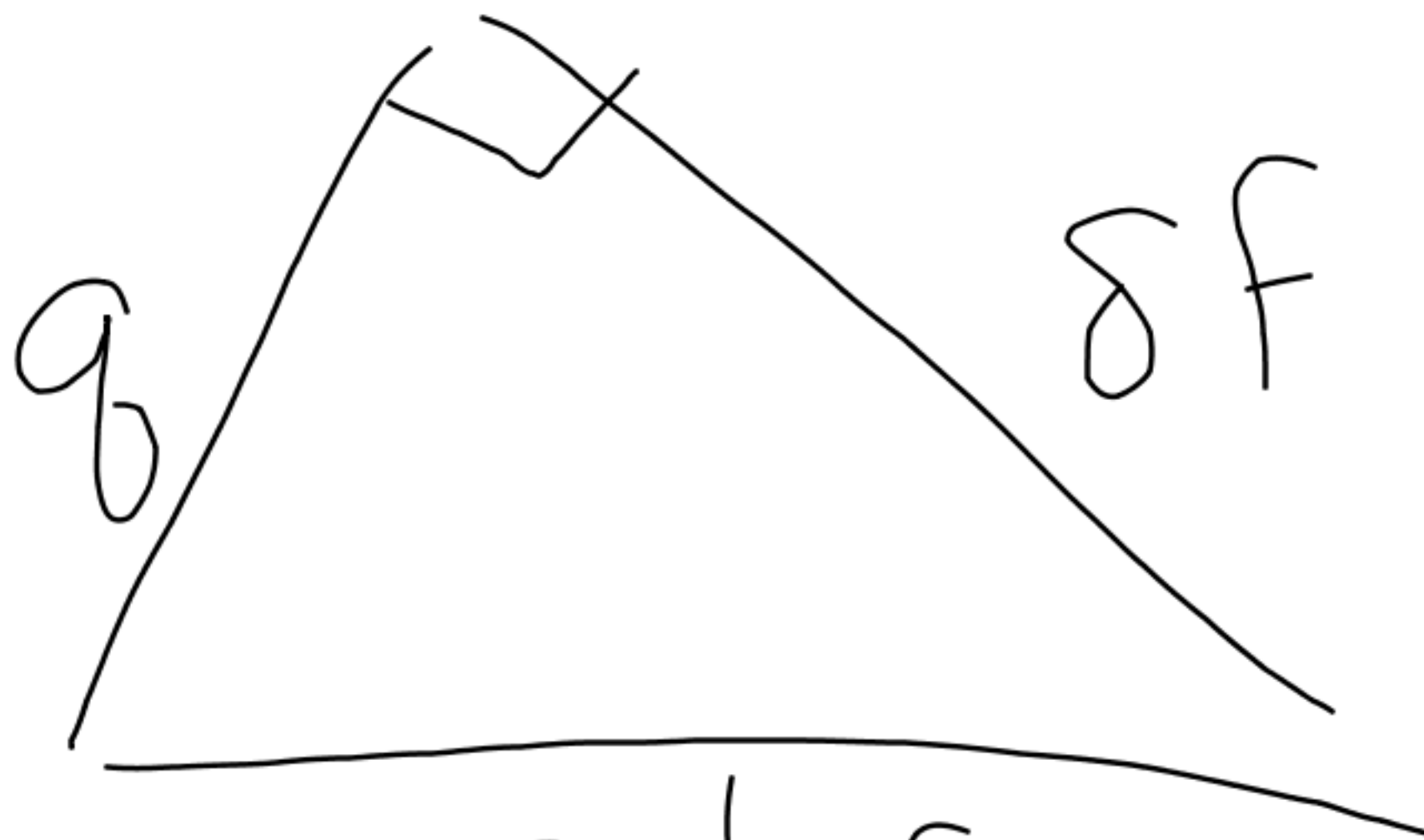
$$q^2 = 0.252229$$

$$q = \sqrt{0.252229}$$

$$q = 0.502$$

$$q = 0.50 \text{ m}$$

p3
3b.



3yd/f

= 10f

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

$$8^2 + a^2 = 10^2$$

$$64 + a^2 = 100$$

$$a^2 = 36$$

$$a = 6ft$$

P. 8 Trigonometry

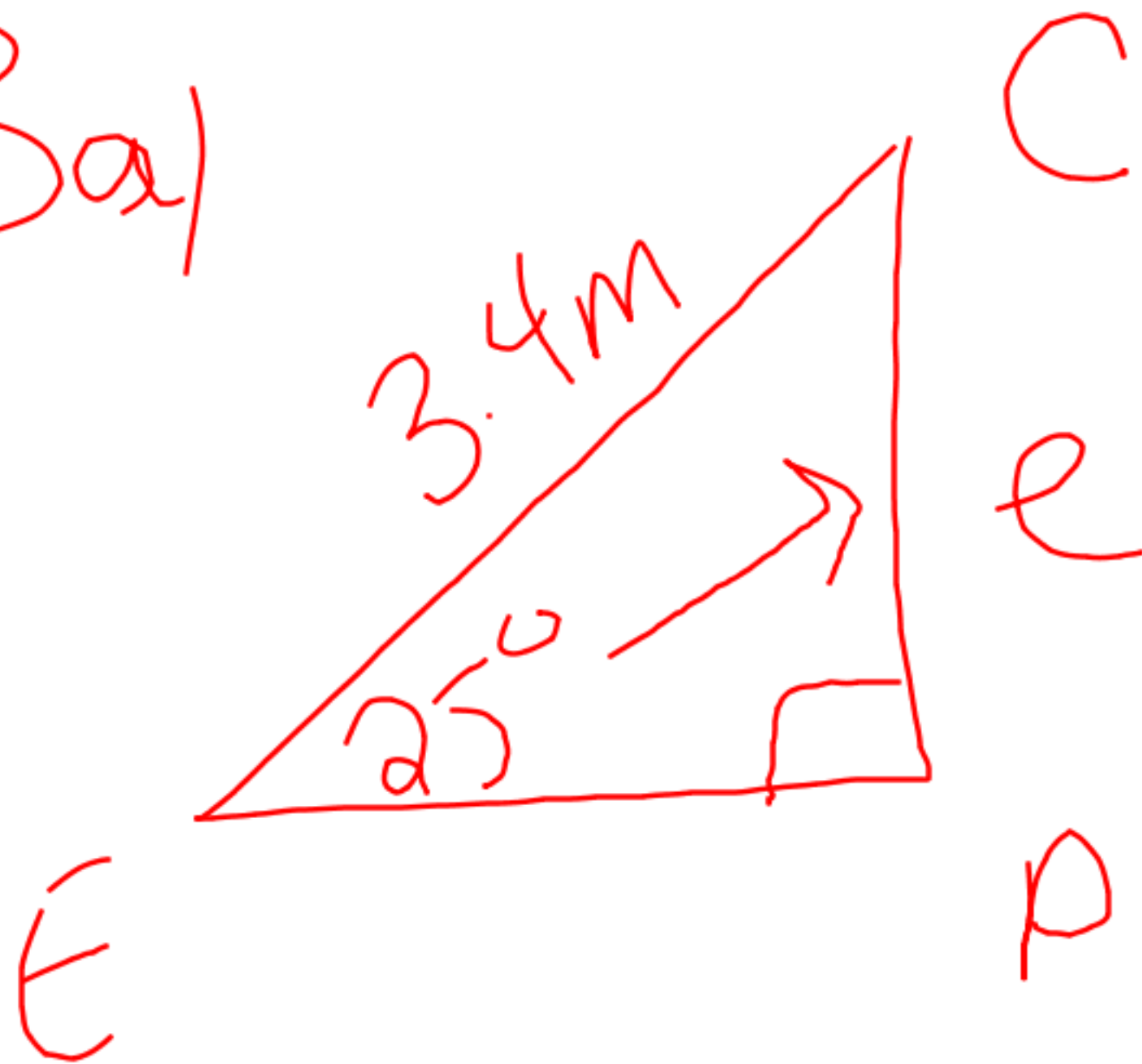
SOH CAH TOA right angled triangle

$$\text{Sine} = \frac{\text{opp}}{\text{hyp}}$$

$$\text{Cosine} = \frac{\text{adj}}{\text{hyp}}$$

$$\text{tan} = \frac{\text{opp}}{\text{adj}}$$

3a)



$$\sin 25^\circ = \frac{e}{11}$$

$$\sin 25^\circ = \frac{e}{3.4}$$

$$e = 3.4 \sin 25^\circ$$

$$e = 1.4 \text{ m}$$

3.

