

S1.1 #62

$$A + B = C$$

$$A + 3.45 \times 10^{-8} = 1.63 \times 10^4$$

$$A = 1.63 \times 10^4 - 3.45 \times 10^{-8} \approx 1.63 \times 10^4$$

$$\begin{array}{r} 16300.0000000000 \\ - 0.0000000345 \\ \hline \end{array}$$

might as well call it 16300!

$$\underline{0000000003.45}$$

121 § 1, 2 \neq 1-4 ALL, 5, 7, 11, 13, 16, 21, 23, 31, 35, 37, 42.

↓ Write out sentences.

Word problems on homework

Lexicon - Describe variables, in words and units.

Paraphrase the question (Distill it)
(help to write equations.)

Setup equations and solve.

WRITE MORE. THINK LESS.

Pg 97 - Solve formulas for indicated variable.
We focus on the word probs.

S1.2 #34

They need \$128,000 for new place
 They must pay \$780⁰⁰ in fees, plus 6% of
 selling price. what's minimum selling price for
 the old place? LAST SENTENCE.

Let $x = \text{selling price for old place (\$)}$

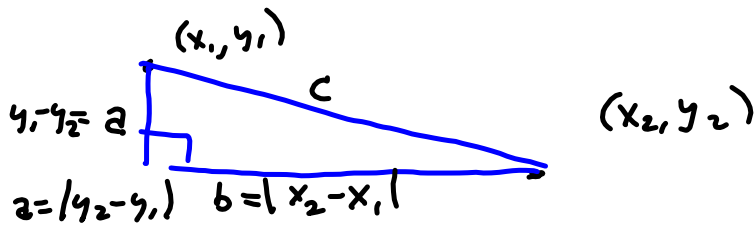
Need 128,000. *Sheliamn \geq*

$$x - 780 - .06x = 128000$$

$$.94x - 780 = 128000$$

$$.94x = 128780$$

$$x = \frac{128780}{.94} = 137000 = x$$



$$\text{MIDPOINT} = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$\text{DISTANCE} = \sqrt{a^2 + b^2}$$

$$= \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2}$$

From pythagorus

$$= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

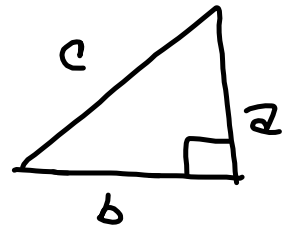
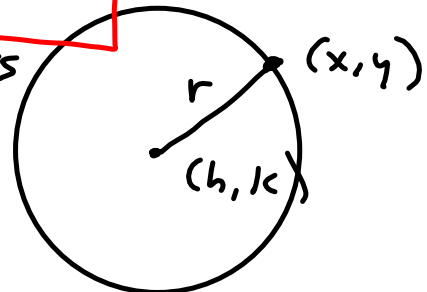
Circle is set of all points equidistant from a fixed point $(x_1, y_1) = (h, k) = \text{center}$

$D = \text{constant}$. Let $(h, k) = \text{center}$ &
 (x, y) be a point
 on the circle

$$\text{Then } D = \sqrt{(x-h)^2 + (y-k)^2} = r = \text{radius}$$

→ Standard eq'n of circle is

$$(x-h)^2 + (y-k)^2 = r^2$$



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

$$c = \sqrt{a^2 + b^2}$$

if $c \geq 0$.