

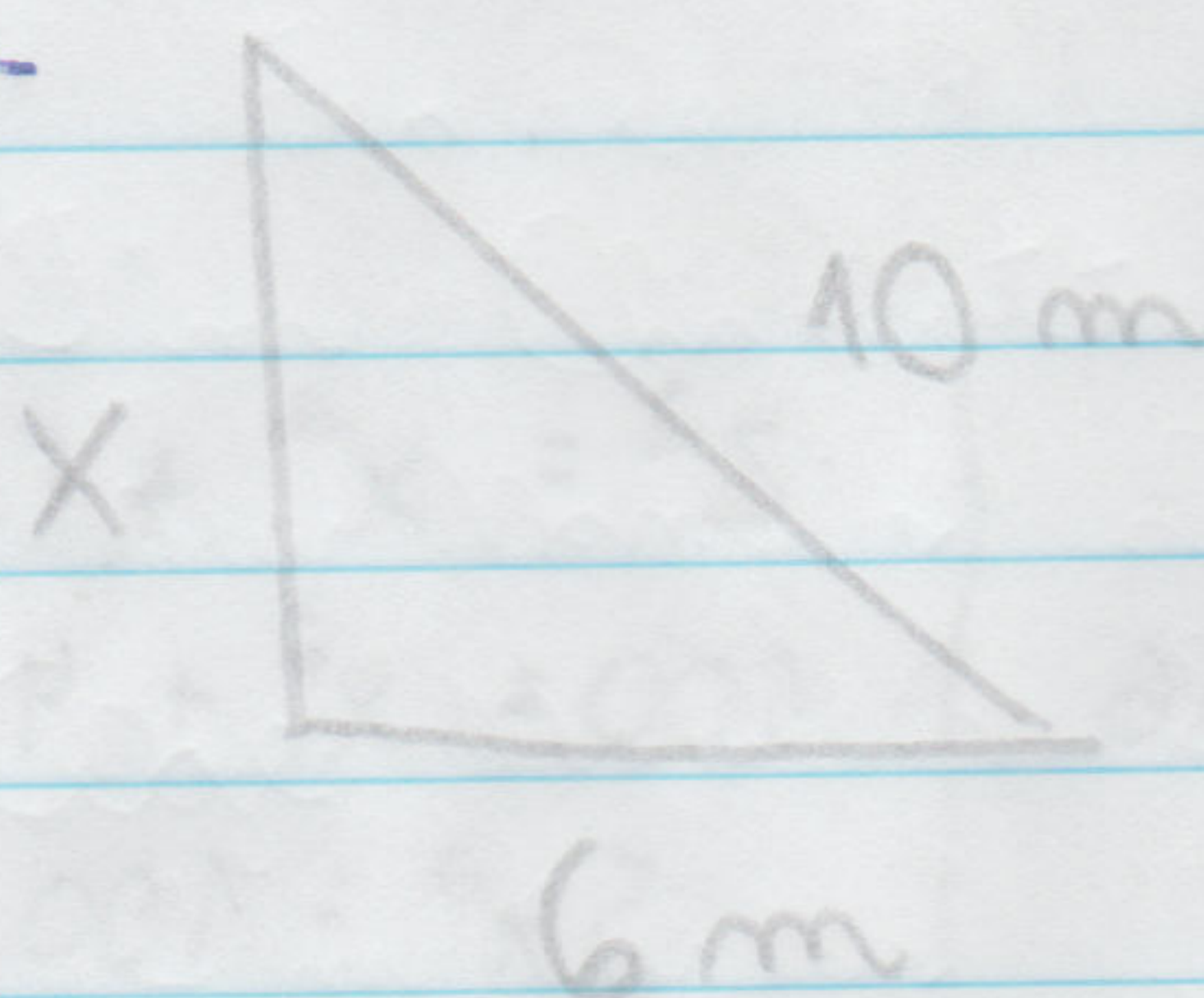
1-

$$x^2 = \sqrt{3}^2 + \sqrt{4}^2$$

$$x^2 = 7$$

$$x = \sqrt{7} // \text{ LETRA (B)}$$

2-



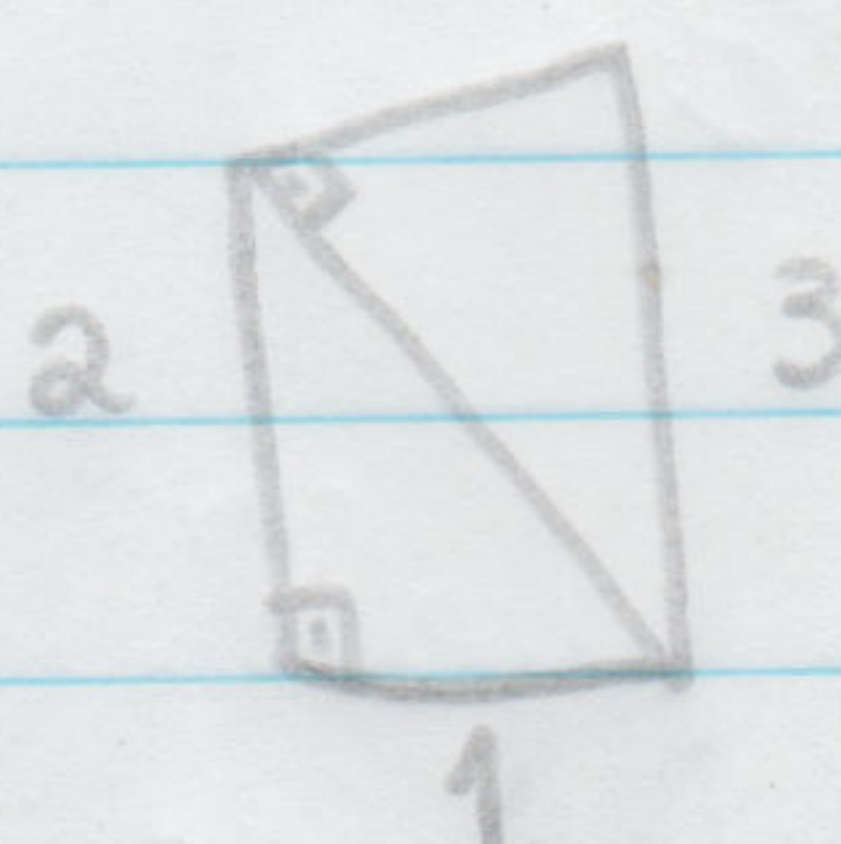
$$10^2 = x^2 + 6^2$$

$$x^2 = 100 - 36$$

$$x = \sqrt{64}$$

$$x = 8 //$$

3-



$$x^2 = 1^2 + 2^2$$

$$x^2 = 1 + 4$$

$$x = \sqrt{5}$$

$$3^2 = x^2 + \sqrt{1}^2$$

$$9 = x^2 + 1$$

$$x = \sqrt{8} \Rightarrow 2 // \text{ LETRA (B)}$$

4-

$$y^2 = a^2 + a^2$$

$$y^2 = 2a^2$$

$$y^2 = 2a^2$$

$$z^2 = a^2 + 2a^2$$

$$z^2 = 3a^2$$

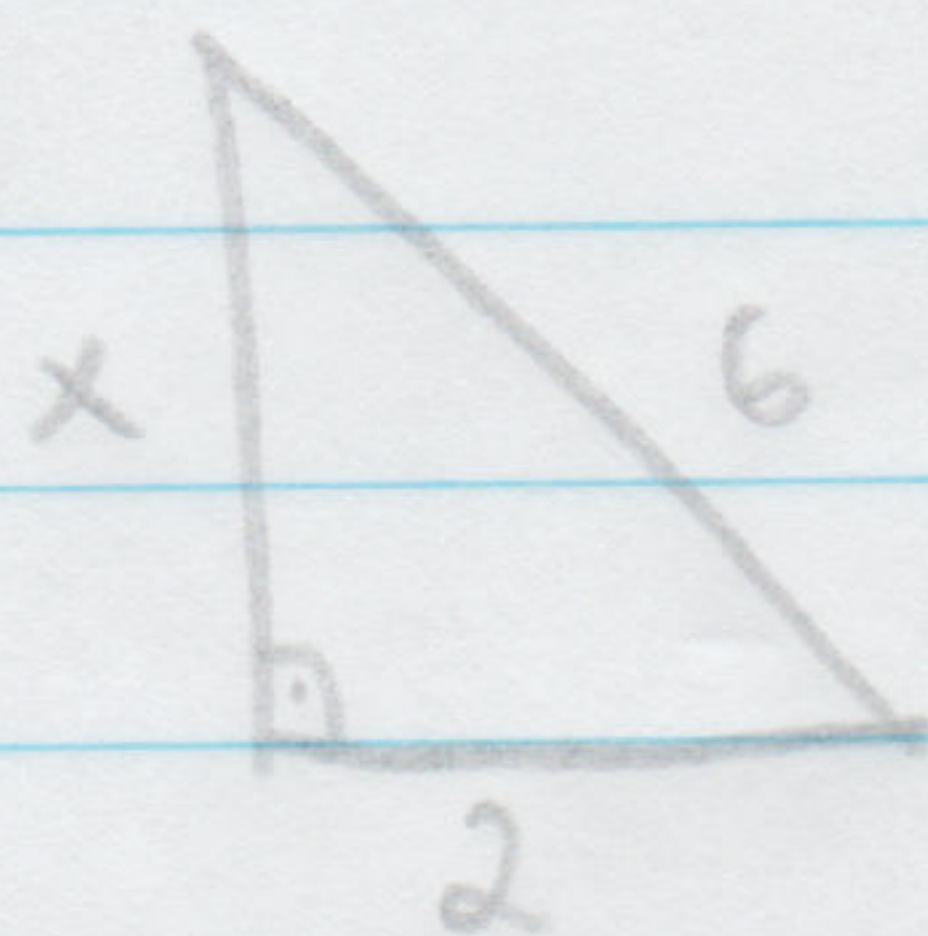
$$x^2 = 3a^2 + a^2$$

$$x^2 = 4a^2$$

$$x = \sqrt{4a^2} \Rightarrow \sqrt{4} \cdot \sqrt{a^2} = 2a //$$

LETRA (B)

5 -



$$6^2 = 2^2 + x^2$$

$$x = \sqrt{32}$$

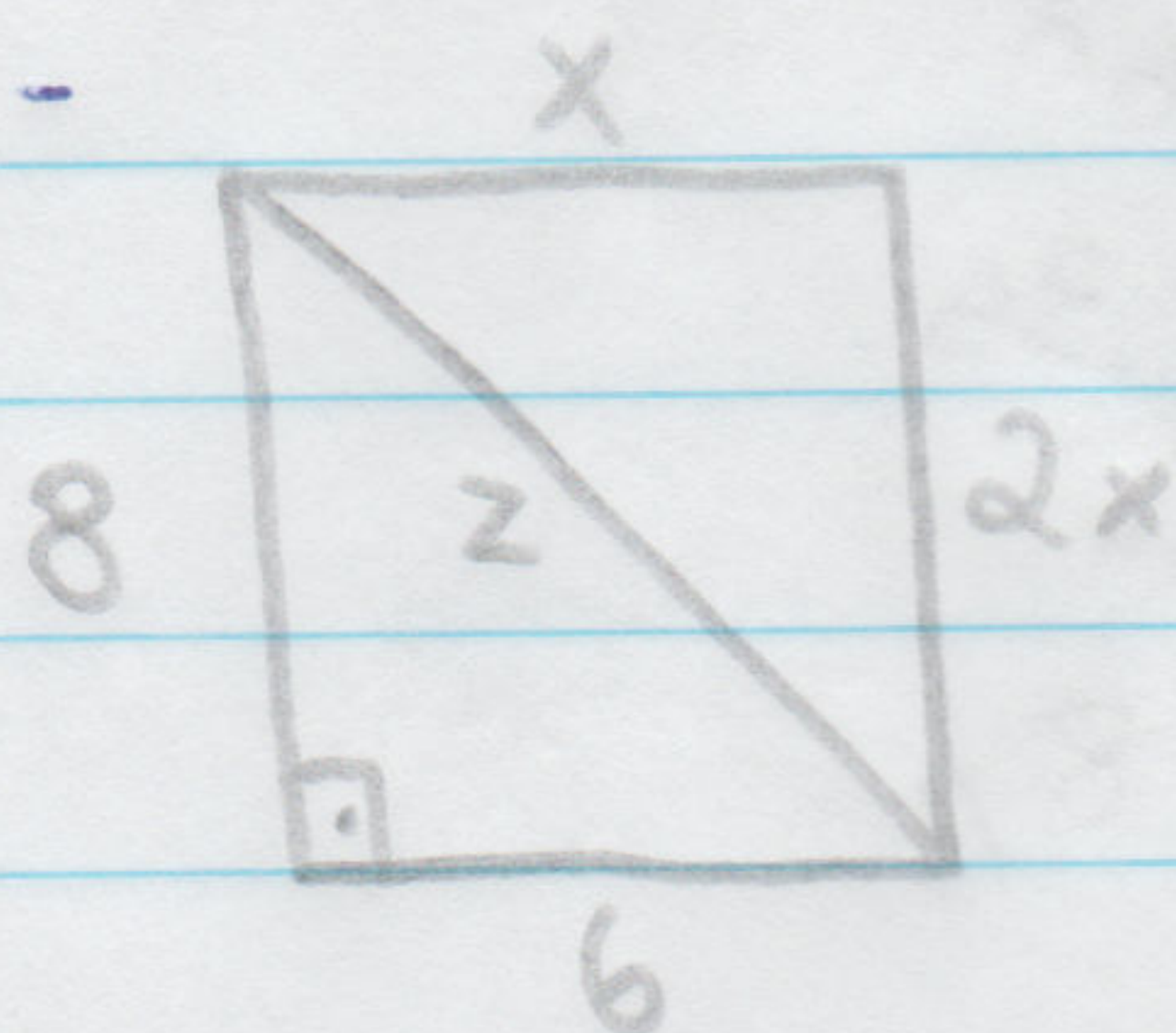
$$x = 4\sqrt{2} //$$

$$2 \cdot 4\sqrt{2} = 8\sqrt{2}$$

$$4\sqrt{2} //$$

LETRA (C)

6 -



$$z^2 = 8^2 + 6^2$$

$$z^2 = 64 + 36$$

$$z^2 = 100$$

$$z^2 = x^2 + (2x)^2$$

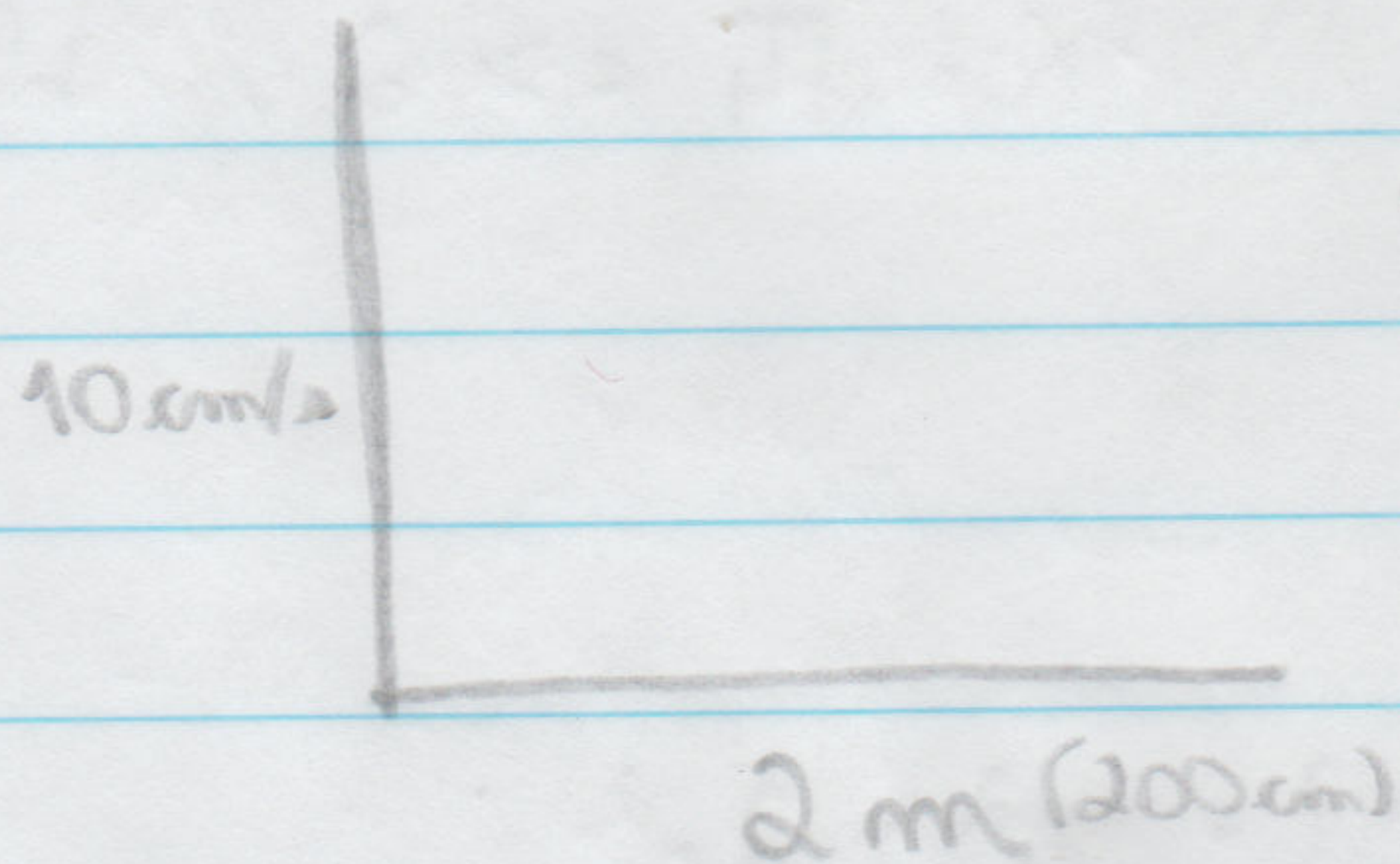
$$100 = x^2 + 4x^2$$

$$5x^2 = 100$$

$$x = \sqrt{20} \Rightarrow 2\sqrt{5}$$

LETRA (A)

7 -



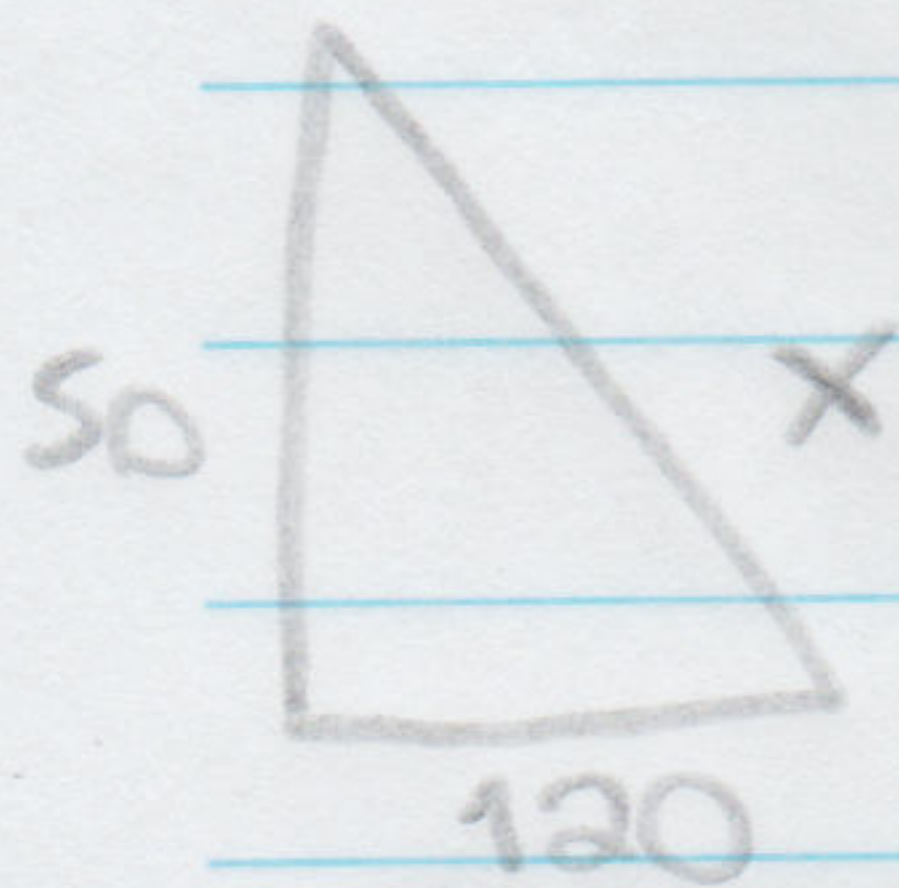
$$V = \frac{\Delta d}{\Delta t}$$

$$V_a = 16 \text{ cm/s}$$

$$V_a = \frac{\Delta d}{5s}$$

$$16 = \frac{\Delta d}{5s}$$

$$\Delta d = 16 \cdot 5 = 80 \text{ cm}$$



$$x^2 = 50^2 + 120^2$$

$$x^2 = 16900$$

$$x = 130 \text{ cm} //$$

$$V_R = \frac{\Delta d}{\Delta t}$$

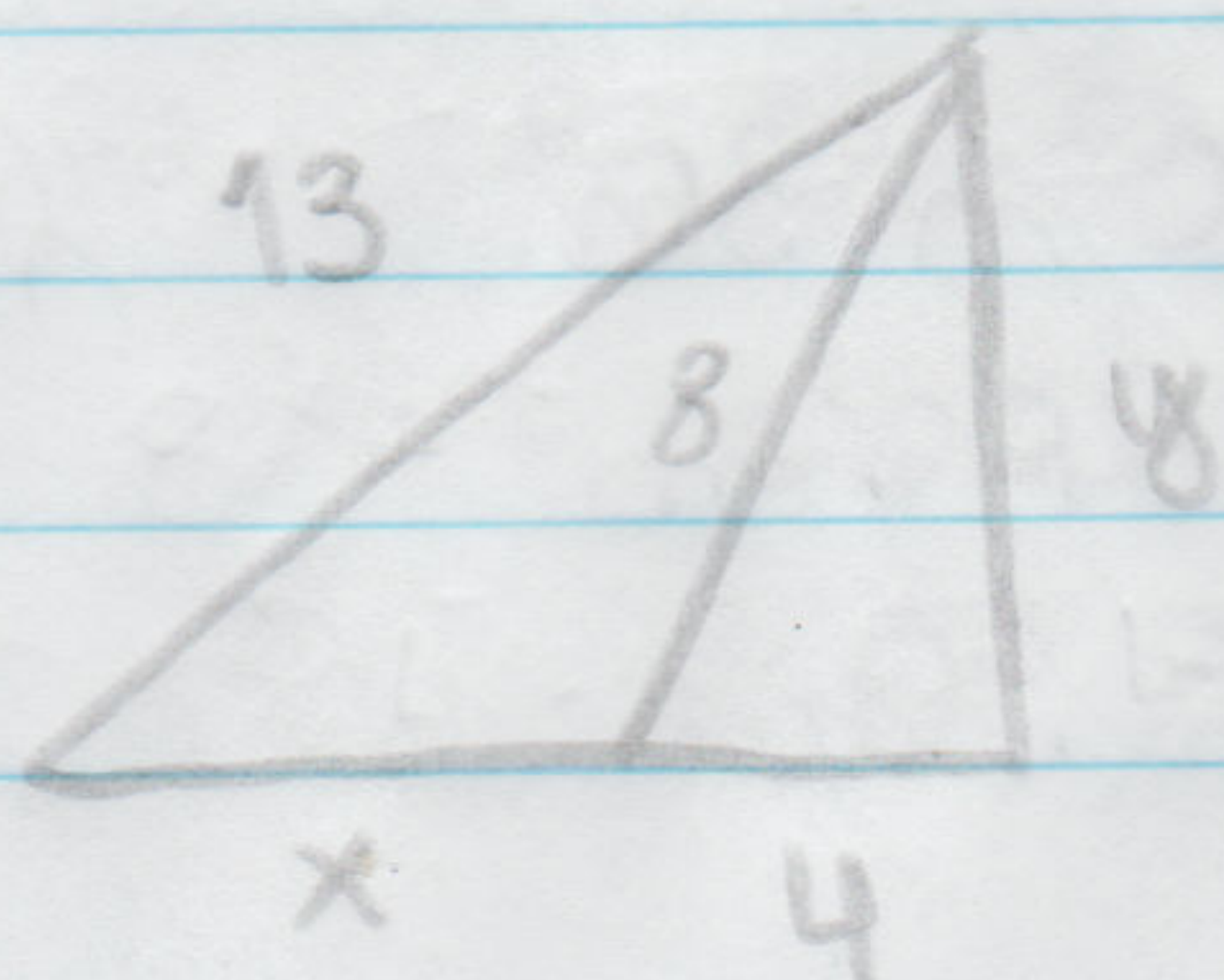
$$10 = \frac{\Delta d}{5}$$

$$\Delta d = 50 \text{ cm}$$

$$1,3 \text{ m} //$$

LETRA (B)

8 -



$$8^2 = 4^2 + 4^2$$

$$4^2 = 48$$

$$13^2 = 48 + (4+x)^2$$

$$169 = 48 + x^2 + 8x + 16$$

$$x^2 + 8x - 105$$

$$\Delta = 22$$

$$x_1 = \frac{-8 + 22}{2} = 7 //$$

7 m //

LETRA (D)

$$x_{II} = \frac{-8 - 22}{2} = -15$$

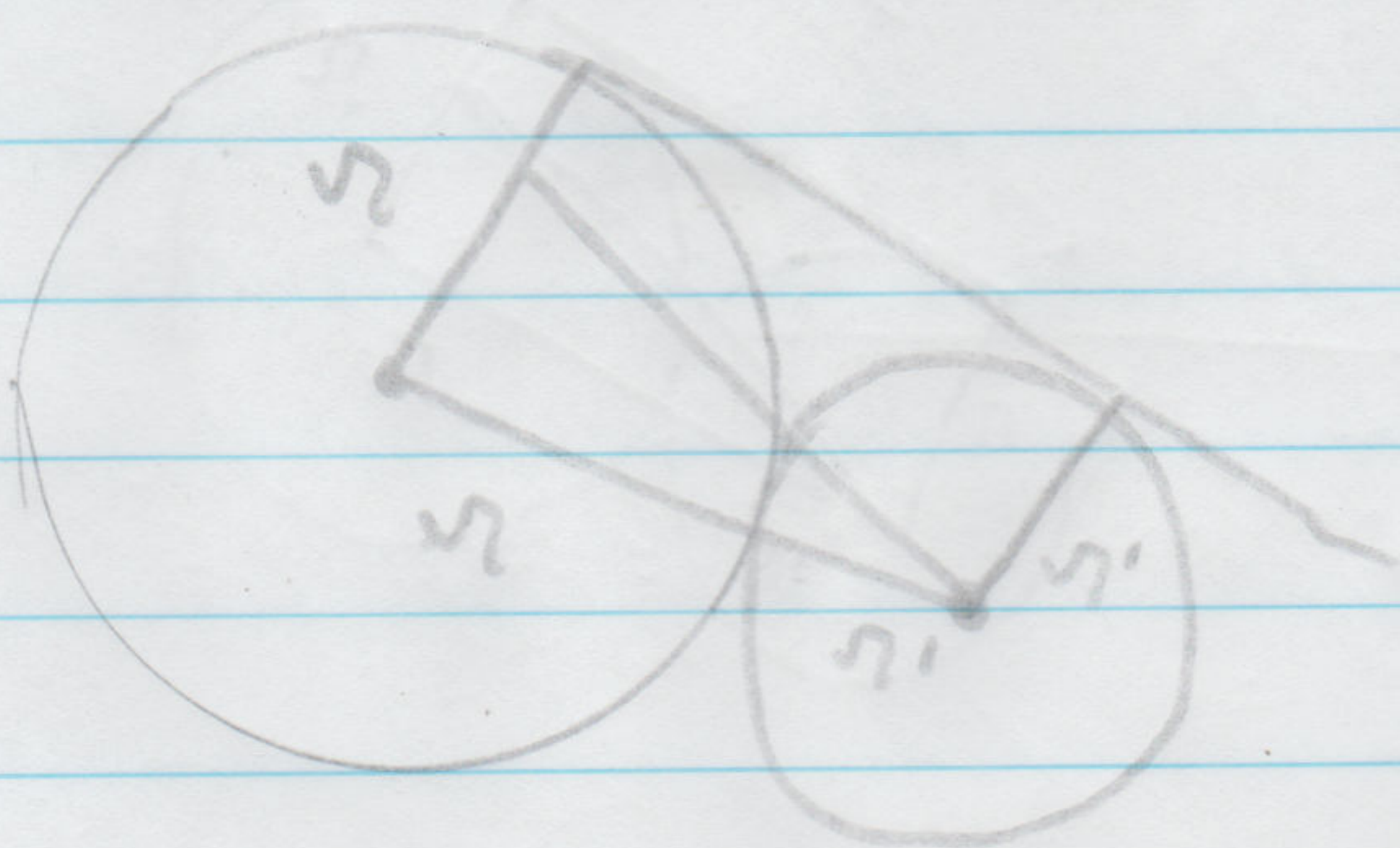
9 -

$$a \cdot h = b \cdot c$$

$$15 \cdot h = 13 \cdot 14$$

$$h = \frac{182}{15} \Rightarrow \approx 12$$

10 -



$$(r + r')^2 = x^2 + (r - r')^2$$

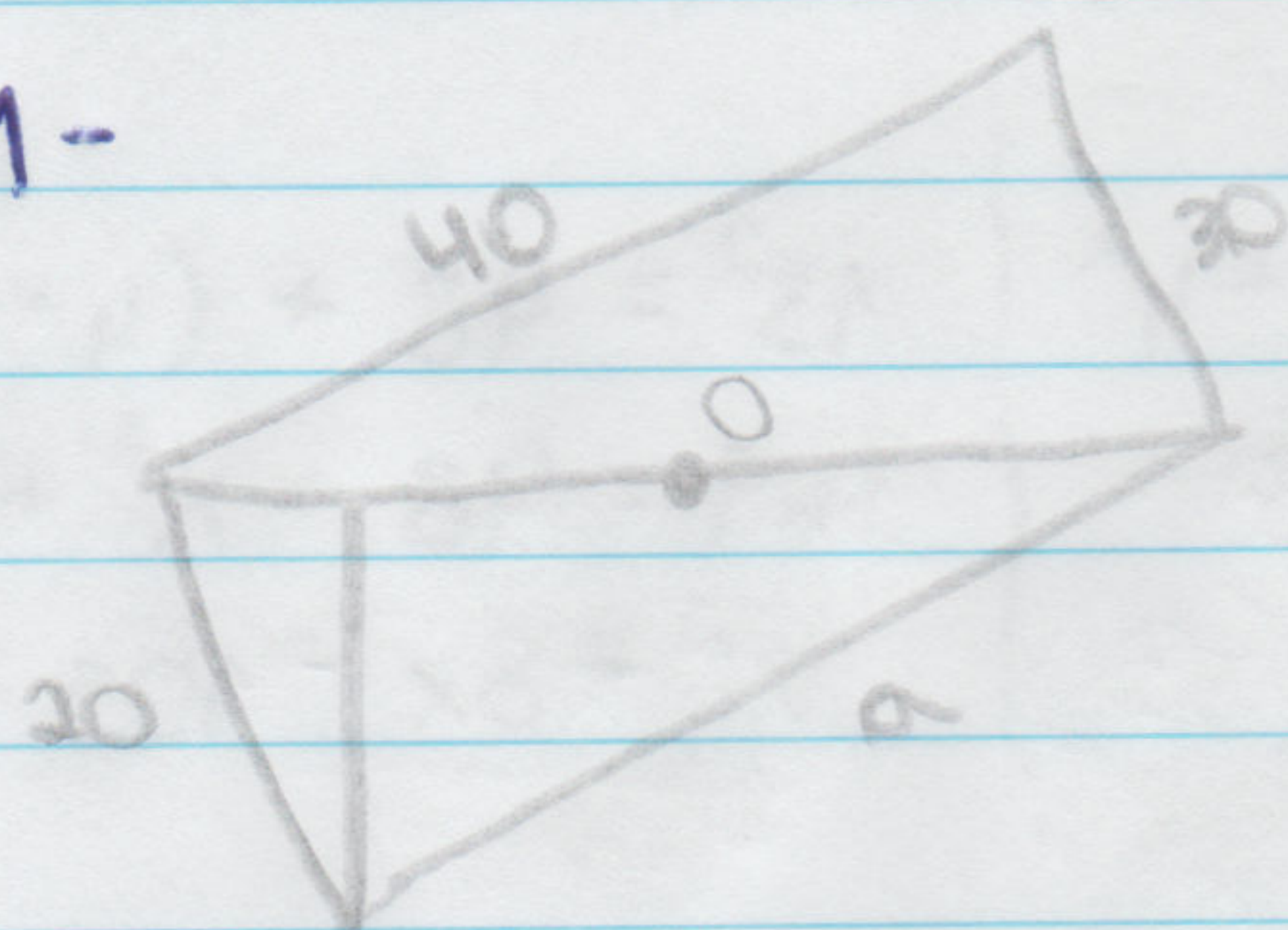
$$x^2 = (r^2 + 2rr' + r'^2) - (r^2 - 2rr' + r'^2)$$

$$x^2 = 4rr'$$

$$x = \sqrt{4rr'}$$

$$x = 2\sqrt{rr'} //$$

11-

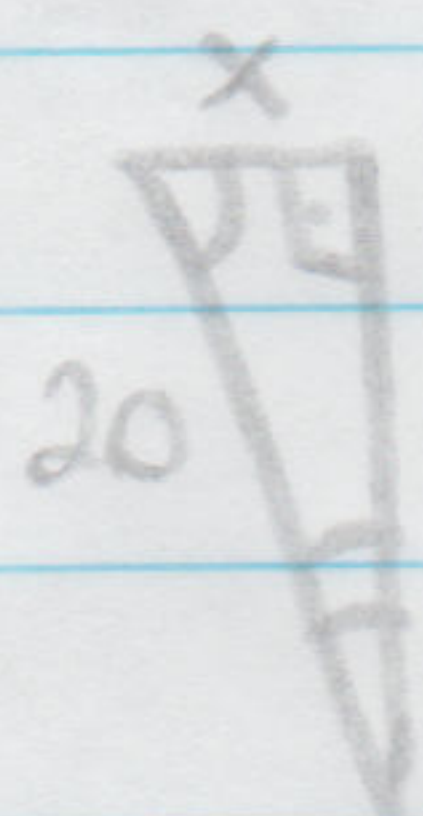
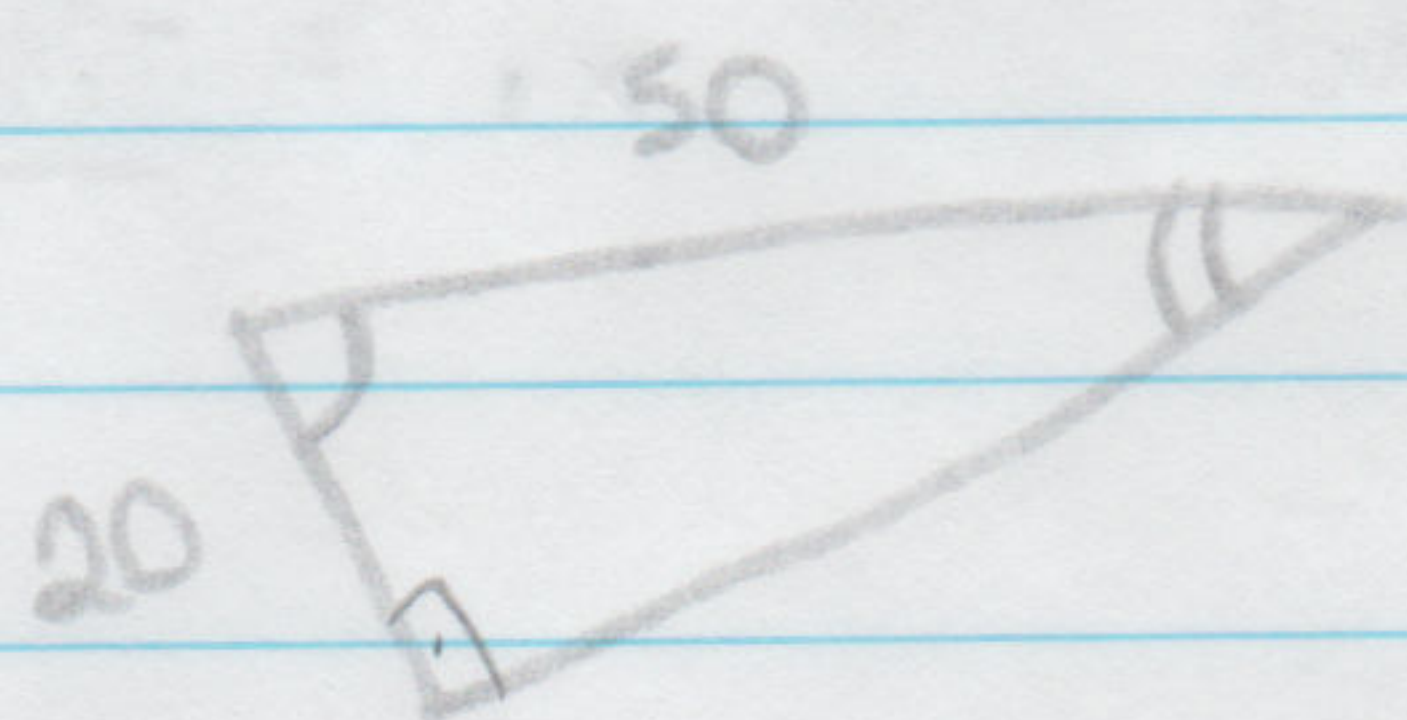


$$O^2 = 40^2 + 30^2$$

$$O^2 = 2500$$

$$O = 50 //$$

- 8



$$\frac{50}{20} = \frac{20}{x}$$

$$50x = 400$$

$$x = 8 //$$

- P

- 01