

Potência de um ponto

$$1) AB^2 = AC \cdot CD$$

$$AB = 8$$

$$AC = CD = x$$

$$AD = (AC + CD)$$

$$8^2 = x(x+x)$$

$$64 = 2x^2$$

$$x^2 = 32$$

$$x = \sqrt{32}$$

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

$$\begin{array}{r} 32 | 2 \\ 16 | 2 \\ 8 | 2 \\ 4 | 2 \\ 2 | \end{array}$$

(E)

$$2) PA = 3PC$$

$$\frac{PB}{PA} = \frac{PA}{PC}$$

$$PA^2 = PB \cdot PC$$

$$(3PC)^2 = PB \cdot PC$$

$$9PC^2 = PB \cdot PC$$

$$9PC = PB$$

(B)

$$3) \quad x(5+x=6^2)$$

$$5x+x^2=36$$

$$x^2+5x-36=0$$

$$\begin{aligned} -9 + 4 &= -5 & -5/a \\ -9 \cdot 4 &= -36 & 6/a & x = 4 \end{aligned}$$

E

$$4) \quad AB \cdot EB = 3 \\ CE = ED$$

$$CE \cdot ED = AE \cdot EB = 3$$

$$CE^2 = 3$$

$$CD = CB + BD$$

$$\tilde{\omega} = 2\sqrt{3}$$

B

5) $\text{gao} = x$

$$AD \cdot AE = AB \cdot AC$$

$$4(4+2x) = 8 + 8$$

$$16 + 5x = 144$$

$$8x = 120$$

$$x = 16$$

Age 10

co=16

$$\begin{array}{r} 8A=20 \\ R=54 \end{array}$$

E