

1) Solución

$$= \frac{1}{5} n \div 6 = 9$$

$$= \frac{1}{5} n = 15$$

$$= n = 15 \cdot 5$$

$$= n = 75$$

2) Solución

$$= -88 = 6a - 22$$

$$= 22 - 88 = 6a$$

$$= -66 = 6a$$

$$= \frac{-66}{6} = a$$

$$= -11 = a$$

3) Solución

$$= -0.2 = 65p + 15$$

$$= -13 - 0.2 = 65p$$

$$= -13.2 = 65p$$

$$= \frac{-13.2}{65} = p$$

$$= -0.203 = p$$

1)  $z = 1 + i$

$$z^2 = (1+i)^2 = 1 + 2i + i^2 = 2i$$

$$z^3 = (1+i)^3 = 1 + 3i + 3i^2 + i^3 = -2 + 2i$$

$$z^4 = (1+i)^4 = 1 + 4i + 6i^2 + 4i^3 + i^4 = -4 + 4i$$

$$z^5 = (1+i)^5 = 1 + 5i + 10i^2 + 10i^3 + 5i^4 + i^5 = -8 + 10i - 5i^5$$

$$z^6 = (1+i)^6 = 1 + 6i + 15i^2 + 20i^3 + 15i^4 + 6i^5 + i^6 = -16 + 20i - 6i^6$$

$$z^7 = (1+i)^7 = 1 + 7i + 21i^2 + 35i^3 + 35i^4 + 21i^5 + 7i^6 + i^7 = -32 + 35i - 7i^7$$

2)  $z = 1 + i$  and  $w = 1 - i$

$$z^2 + w^2 = (1+i)^2 + (1-i)^2 = 2i + (-2i) = 0$$

$$z^3 + w^3 = (1+i)^3 + (1-i)^3 = (-2 + 2i) + (-2 - 2i) = -4$$

$$z^4 + w^4 = (1+i)^4 + (1-i)^4 = (-4 + 4i) + (-4 - 4i) = -8$$

$$z^5 + w^5 = (1+i)^5 + (1-i)^5 = (-8 + 10i - 5i^5) + (-8 - 10i - 5i^5) = -16 - 10i^5$$

$$z^6 + w^6 = (1+i)^6 + (1-i)^6 = (-16 + 20i - 6i^6) + (-16 - 20i - 6i^6) = -32 - 12i^6$$

3)  $z = 1 + i$  and  $w = 1 - i$

$$z^2 + w^2 = 0$$

$$z^3 + w^3 = -4$$

$$z^4 + w^4 = -8$$

$$z^5 + w^5 = -16 - 10i^5$$

$$z^6 + w^6 = -32 - 12i^6$$

9 = solución

$$x = \frac{-(-1) \pm \sqrt{1 - 4 \cdot 3 \cdot (-2)}}{2 \cdot 3}$$

$$x = \frac{-(-1) \pm \sqrt{1 - 12 \cdot (-2)}}{2 \cdot 3}$$

profe la verdad en este punto quede confundido un poco

10) solución

$$3x + 3x + 2x - 1 + 2x - 1$$

$$10x - 2$$

$$= 10x - 2$$