

$$a_1 + a_2 = 9 \frac{2}{3} = \frac{29}{3}$$

$$a_1 - d = 5 \frac{1}{3} = \frac{16}{3}$$

$$a_1 = d + \frac{16}{3} = -\frac{1}{3} + \frac{16}{3} = 5$$

$$a_n = a_1 + d(n-1)$$
$$a_2 = a_1 + d = d + \frac{16}{3} + d = 2d + \frac{16}{3}$$

$$d + \frac{16}{3} + 2d + \frac{16}{3} = \frac{29}{3}$$

$$3d = \frac{29 - 16 - 16}{3} = -\frac{3}{3} = -1$$

$$d = -\frac{1}{3}$$

$$a_3 = a_1 + 2d = 5 - \frac{1}{3} \cdot 2 = \frac{13}{3}$$

$$-191 = 5 - \frac{1}{3}(n-1) = 5 + \frac{1}{3} - \frac{1}{3}n = \frac{16}{3} - \frac{1}{3}n \quad | \cdot 3$$

$$\rightarrow 16 - n = -57 \cdot 3$$

$$n = 589$$

$$1) 4x(x^2 - 8) = 0$$

$$x = 0 \quad x = \pm\sqrt{8} = \pm 2\sqrt{2}$$

$$e) \text{ pythag } t = x^3 \Rightarrow$$
$$3t^2 - 5t - 2 = 0$$

$$D = 25 + 24 = 49 = 7^2$$

$$t_1 = \frac{5-7}{6} = -\frac{2}{6} = -\frac{1}{3}$$

$$t_2 = \frac{5+7}{6} = 2$$

$$x_1^3 = -\frac{1}{3} \Rightarrow x_1 = -\sqrt[3]{\frac{1}{3}}$$

$$x_2^3 = 2 \Rightarrow x_2 = \sqrt[3]{2}$$