

$$1.1) x = 3 \text{ or } -7$$

$$1.2) 5x^2 - 3x - 13 = 0$$

$$\therefore x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(5)(-13)}}{2(5)}$$

$$= \frac{3 \pm \sqrt{9 + 260}}{10}$$

$$= -1, 34 \text{ or } 1, 94$$

$$1.3) 3^x(1+3^x) = 270$$

$$\therefore 3^x(10) = 270$$

$$\therefore 3^x = 27$$

$$\therefore x = 3$$

$$\therefore x = 3$$

$$1.2) x = 3y + 5$$

$$(3y+5)^2 + y(3y+5) = 4 \cdot 21^2$$

$$9y^2 + 30y + 25 + 3y^2 + 5y = 4 \cdot 21^2$$

$$14y^2 + 35y + 25 = 0$$

$$14y^2 + 5y + 3 = 0$$

$$\therefore (2y+3)(y+1) = 0$$

$$\therefore y = -3/2 \text{ or } -1$$

$$\text{If } y = -3/2, x = 3(-3/2) + 5$$

$$= -9/2 + 5$$

$$= 1/2$$

$$\text{If } y = -1, x = 3(-1) + 5$$

$$= -3 + 5$$

$$= 2$$

$$1.3) -2^x < 0$$

$$\frac{-0 + 0}{1 - 3/2} < 0$$

$$\therefore x \leq 1 \text{ or } x \geq 3/2$$

$$1.4) \text{ Roots are real and rational}$$

$$\text{equal if } k = 5$$

$$2.1) T_4 = 27$$

$$2.2) T_{20} = 3 + 273(8)$$

$$= 2197$$

$$\sum_{n=1}^{20} (8n-5)$$

$$2.4) S_{20} = \frac{20}{2} [2(3) + 273(8)]$$

$$= 300030$$

$$2.5) 3 + 11 + 19 + 27 + \dots + 2197$$

$$3 + (n-1)24 = 2197$$

$$\therefore 24n - 21 = 2197$$

$$\therefore n = 92$$

$$2.6) \text{ No sum to infinity}$$

$$\text{as } r > 1 \text{ (r=2)}$$

$$3.1.1) 17, 10, 5, 2, r, 5$$

$$\therefore r = 1; 5 = 2$$

$$3.1.2) 2a = 2$$

$$\therefore a = 1$$

$$3a + b = -7$$

$$\therefore 3 + b = -7$$

$$\therefore b = -10$$

$$a + b + c = 17$$

$$\therefore 1 + 10 + c = 17$$

$$\therefore c = 6$$

$$3.1.3) T_8 = 8^2 - 10(8) + 26$$

$$= 10m$$

$$3.2.1) T_{10} = 9 \left( \frac{3}{2} \right)^{10-1}$$

$$= 3^9 \cdot 3^{-9}$$

$$= 3^7 \left( \frac{1}{3} \right)^7$$

$$3.2.2) S_{10} = \frac{9 \left( \left( \frac{3}{2} \right)^{10} - 1 \right)}{\frac{3}{2} - 1}$$

$$= 13,50$$

$$3.3.1) -1 < r < 1$$

$$\therefore -1 < 5r + 1 < 1$$

$$\therefore -2 < 5r < 0$$

$$\therefore -\frac{2}{5} < r < 0$$

$$\text{and } r \neq -\frac{2}{5}$$

$$3.3.2) \text{ No sum to infinity}$$

$$\text{as } r > 1 \text{ (r=2)}$$

$$-2 =$$

$$4.1.1) x = -2$$

$$4.1.2) (0, 5) \quad 5 = \frac{9}{2} + b$$

$$\therefore 10 = 9 + 2b$$

$$\therefore 1 = 2b$$

$$\therefore b = \frac{1}{2}$$

$$(-6, 2) \quad 2 = \frac{9}{4} + b$$

$$\therefore -8 = 9 + 4b$$

$$\therefore -17 = 4b$$

$$\therefore b = -\frac{17}{4}$$

$$4.2) \text{ Decreasing, as } x$$

$$\text{increases, f(x) decreases}$$

$$5.1) -2 = \log_a 16$$

$$\therefore a^{-2} = 16$$

$$\therefore a^{-2} = 4^2$$

$$\therefore \left( \frac{1}{a} \right)^2 = 4^2$$

$$\therefore \frac{1}{a} = 4$$

$$\therefore a = \frac{1}{4}$$

$$5.2) h(x) = y = \left( \frac{1}{4} \right)^x$$

$$5.3) g(x) = \log_4(-x)$$

$$5.4) x \in \mathbb{R}; x < 0$$

$$5.5) 0 < x < 16$$

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