

$$1) \frac{6y^5 + 14y^2 + 2y}{2y}$$

$$\frac{3\cancel{6}y^{\cancel{4}5} + 7\cancel{14}y^{\cancel{1}2} + \cancel{2}y}{\cancel{2}y}$$

$$3y^4 + 7y + 1$$

$$2) \frac{12y^5 - 6y^3}{-3y^2}$$

$$\frac{4\cancel{12}y^{\cancel{3}5} - \cancel{2}6y^{\cancel{1}3}}{-\cancel{3}y^{\cancel{2}2}}$$

$$-4y^3 + 2y$$

$$3) \frac{18x^4 - 27x^3 + 9x}{9}$$

$$\frac{2\cancel{18}x^{\cancel{4}4} - \cancel{3}27x^{\cancel{3}3} + \cancel{9}x}{\cancel{9}}$$

$$2x^4 - 3x^3 + x$$

$$4) \frac{8r^5 + 20r^3 - 4}{-4r^2}$$

$$\frac{2\cancel{8}r^{\cancel{3}5} + \cancel{5}20r^{\cancel{1}3} - \cancel{4}}{-\cancel{4}r^{\cancel{2}2}}$$

$$-2r^3 - 5r + \frac{1}{r^2}$$

$$5) \frac{15m^2n^2 - 8m^3n^3 + 5m^2n^3}{10m^2n^3}$$

$$\frac{3\cancel{15}m^{\cancel{2}2}n^{\cancel{2}2} - \cancel{4}8m^{\cancel{3}3}n^{\cancel{3}3} + \cancel{5}m^{\cancel{2}2}n^{\cancel{3}3}}{\cancel{2}10m^{\cancel{2}2}n^{\cancel{3}3}}$$

$$\frac{3}{2n} - \frac{4m}{5} + \frac{1}{2}$$

$$6) \frac{70x^3 - 30x^2 - 20x}{10x}$$

$$\frac{7\cancel{70}x^{\cancel{2}3} - \cancel{3}30x^{\cancel{1}2} - \cancel{2}20x}{\cancel{10}x}$$

$$7x^2 - 3x - 2$$

$$7) \frac{15m^4n^3 + 20m^5n^3 - m^3n}{-5m^4n}$$

$$\frac{3\cancel{15}m^{\cancel{4}4}n^{\cancel{3}3} + \cancel{2}20m^{\cancel{5}5}n^{\cancel{3}3} - \cancel{m^3}n}{-\cancel{5}m^{\cancel{4}4}n}$$

$$-3n^2 - 4mn^2 + \frac{1}{5m}$$

$$8) \frac{18p^5 - 6p^3}{12p^2}$$

$$\frac{3\cancel{18}p^{\cancel{3}5} - \cancel{6}p^{\cancel{1}3}}{\cancel{2}12p^{\cancel{2}2}}$$

$$\frac{3p^3}{2} - \frac{p}{2}$$

$$11) \frac{q^7r^6 - q^3r^2}{q^3r^2}$$

$$\frac{q^{\cancel{4}7}r^{\cancel{4}6} - q^{\cancel{3}3}r^{\cancel{2}2}}{q^{\cancel{3}3}r^{\cancel{2}2}}$$

$$q^4r^4 - 1$$

$$12) \frac{16y^9 + 12y^3 - 36y}{4y}$$

$$\frac{4\cancel{16}y^{\cancel{8}9} + \cancel{3}12y^{\cancel{2}3} - \cancel{9}36y}{\cancel{4}y}$$

$$4y^8 + 3y^2 - 9$$

$$13) \frac{15x^4 - 23x^3 + 9x}{x}$$

$$\frac{15x^{\cancel{3}4} - 23x^{\cancel{2}3} + 9x}{\cancel{x}}$$

$$15x^3 - 23x^2 + 9$$

$$14) \frac{8r^5 + 20r^3 - 4}{-4r^2}$$

$$\frac{2\cancel{8}r^{\cancel{3}5} + \cancel{5}20r^{\cancel{1}3} - \cancel{4}}{-\cancel{4}r^{\cancel{2}2}}$$

$$-2r^3 - 5r + \frac{1}{r^2}$$

$$9) \frac{12x^{14} - 8x^7 + 10x^3 + x}{-2x}$$

$$\frac{6\cancel{12}x^{\cancel{13}14} - \cancel{4}8x^{\cancel{6}7} + \cancel{5}10x^{\cancel{2}3} + \cancel{x}}{-\cancel{2}x}$$

$$-6x^{13} + 4x^6 - 5x^2 - \frac{1}{2}$$

$$10) \frac{14x^5 + 28x^4 - 7x^3}{7x^3}$$

$$\frac{2\cancel{14}x^{\cancel{2}5} + \cancel{2}28x^{\cancel{1}4} - \cancel{7}x^{\cancel{3}3}}{\cancel{7}x^{\cancel{3}3}}$$

$$2x^2 + 4x - 1$$

$$15) \frac{20m^5n^4 - 8m^3n^3 + 12m^2n}{4m^3n^2}$$

$$\frac{5\cancel{20}m^{\cancel{2}5}n^{\cancel{2}4} - \cancel{2}8m^{\cancel{3}3}n^{\cancel{3}3} + \cancel{3}12m^{\cancel{2}2}n}{\cancel{4}m^{\cancel{3}3}n^{\cancel{2}2}}$$

$$5m^2n^2 - 2n + \frac{3}{mn}$$