

$$\textcircled{33} \quad \frac{x^3 - 8}{(x)^3 - (2)^3}$$

$$(x-2)(x^2 + 2x + 4)$$

$$\textcircled{35} \quad \frac{216x^3 + 1}{(6x)^3 + (1)^3}$$

$$(6x+1)(36x^2 - 6x + 1)$$

$$\textcircled{37} \quad \frac{1000x^3 + 27}{(10x)^3 + (3)^3}$$

$$(10x+3)(100x^2 - 30x + 9)$$

$$\textcircled{39} \quad \frac{32x^3 - 4}{4(8x^3 - 1)} \\ 4((2x)^3 - (1)^3)$$

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

$$\textcircled{41} \quad \frac{x^3 + x^2 + x + 1}{x^2(x+1) + (x+1)}$$

$$(x+1)(x^2 + 1)$$

$$\textcircled{43} \quad \frac{x^3 + 3x^2 + 10x + 30}{x^2(x+3) + 10(x+3)}$$

$$(x+3)(x^2 + 10)$$

$$\begin{aligned} & \textcircled{45} \quad 2x^3 - 5x^2 + 18x - 45 \\ & \quad x^2(2x-5) + 9(2x-5) \\ & \quad \boxed{(2x-5)(x^2+9)} \end{aligned}$$

$$\begin{aligned} & \textcircled{47} \quad 3x^3 - 6x^2 + x - 2 \\ & \quad 3x^2(x-2) + (x-2) \\ & \quad \boxed{(x-2)(3x^2+1)} \end{aligned}$$

$$\begin{aligned} & \textcircled{49} \quad 3x^3 - 2x^2 - 9x + 6 \\ & \quad x^2(3x-2) - 3(3x-2) \\ & \quad \boxed{(3x-2)(x^2-3)} \end{aligned}$$