

$$(\underline{x^2 - 2x + 4}) \cdot (\underline{x + 2}) - 8 =$$

$$x^3 + 2x^2 - 2x^2 - 4x + 4x + 8 - 8 = x^3$$

$$(x - 2) \cdot (x^2 - 4x + 4) =$$

$$x^3 - 4x^2 + 4x - 2x^2 + 8x - 8 =$$

$$x^3 - 4x^2 - 2x^2 + 4x + 8x - 8 =$$

$$x^3 - 6x^2 + 12x - 8$$

$$(5x - 3) \cdot (x^3 - 1) \cdot (x^2 + 2) =$$

$$(5x^4 - 5x - 3x^3 + 3) \cdot (x^2 + 2) =$$

$$(5x^4 - 3x^3 - 5x + 3) \cdot (x^2 + 2) =$$

$$5x^6 + 10x^4 - 3x^5 - 6x^3 - 5x^3 - 10x - 3x^2 + 6$$

$$= 5x^6 - 3x^5 + 10x^4 - 6x^3 - 5x^3 - 3x^2 - 10x + 6$$

$$= 5x^6 - 3x^5 + 10x^4 - 11x^3 - 3x^2 - 10x + 6$$