

$$\frac{3x^3}{-\frac{1}{2}x^2} = \frac{3x}{-\frac{1}{2}} = 3x \div -\frac{1}{2} = 3x \cdot (-2) = -6x$$

$$-6x\left(-\frac{1}{2}x^2 + 0x + 1\right) = 3x^3 + 0x^2 - 6x$$

$$-\frac{1}{2}x^2 + 0x + 1 \overline{\begin{array}{r} -6x \\ 3x^3 - x^2 + 4x + 2 \\ -(3x^3 - 0x^2 - 6x) \\ \hline -x^2 + 10x + 2 \end{array}}$$

$$\frac{-x^2}{-\frac{1}{2}x^2} = \frac{1}{\frac{1}{2}} = 1 \div \frac{1}{2} = 1 \cdot 2 = 2$$

$$2\left(-\frac{1}{2}x^2 + 0x + 1\right) = -x^2 + 0x + 2$$