7.4 cont., 7.5

Recall
$$\int \frac{1}{x^2+9} dx = \frac{1}{3} + 2 \ln \left(\frac{x}{3}\right) + C$$

$$\int \frac{2x^2 - x + 4t}{x^3 + 4x} dx$$

$$= 2x^2 - x + 4t = A + Bx + C + Cx$$

$$= (A+B)x^2 + Cx + 4x$$

$$= Ax^2 + 4x + Bx^2 + Cx$$

$$= (A+B)x^2 + Cx + 4x$$

$$= A+B = 2$$

$$= (A+B)x^2 + Cx + 4x$$

$$= (A+B)x^2 + Cx + 4x$$