

# Quiz 1 (18 Jan) MTH 140 Spring 2024

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$$\frac{2}{x+7} + \frac{3x}{x+2} = \left(\frac{2}{x+7}\right)\left(\frac{x+2}{x+2}\right) + \left(\frac{3x}{x+2}\right)\left(\frac{x+7}{x+7}\right)$$

$$= \frac{[2x+4] + [3x^2+21x]}{(x+7)(x+2)}$$

$$= \frac{3x^2+23x+4}{(x+7)(x+2)}$$