

#11-38 Simplify

$$a) \frac{5}{8} + \frac{1}{6} = \frac{15}{24} + \frac{4}{24} = \frac{19}{24}$$

$$b) \frac{8}{9} - \frac{2}{3} = \frac{8}{9} - \frac{6}{9} = \frac{2}{9}$$

$$c) \frac{x+5}{x+2} + \frac{2x+1}{x+2} = \frac{3x+6}{x+2} = \frac{3(x+2)}{x+2} = 3$$

$$d) \frac{x^2-3}{(x+5)(2x-1)} + \frac{x(x+5)}{2x-1(x+5)} = \frac{x^2-3+x^2+5x}{(2x-1)(x+5)}$$

$$= \frac{2x+5x-3}{(2x-1)(x+5)} = \frac{(2x-1)(x+3)}{(2x-1)(x+5)}$$

$$= \frac{x+3}{x+5}$$