

Multiply and Divide HW

Simplify each expression.

1)
$$\frac{x+4}{7x^2-13x-2} \div \frac{1}{7x+1}$$

2)
$$\frac{7x-3}{3x^2-12x+12} \div \frac{7x-3}{3x^2-15x+18}$$

3)
$$\frac{15x+20}{3x+4} \cdot \frac{x+4}{5}$$

4)
$$\frac{x+8}{5x+1} \div \frac{60x^2}{5x+1}$$

5)
$$\frac{2x^2-11x+12}{7x^2-76x+60} \cdot \frac{49x-42}{2x-3}$$

6)
$$\frac{7x-8}{14x^2-72x+64} \div \frac{30}{10x-40}$$

7)
$$\frac{21x-14}{7x-42} \cdot \frac{30x^2+50x}{9x^2+9x-10}$$

8)
$$\frac{5x^2-50x+45}{10x^3-70x^2} \cdot \frac{7x+1}{35x^2-30x-5}$$