Simplify the following algebraic fractions

1) $$\frac{3x^2+7x+2}{6x^2+2x} = \frac{\cancel{(3x+1)}(x+2)}{2x\cancel{(3x+1)}} = \frac{x+2}{2x}$$

2) $$\frac{10x^2+17x+3}{4x^2-9} = \frac{\cancel{(2x+3)}(5x+1)}{\cancel{(2x+3)}(2x-3)} = \frac{5x+1}{2x-3}$$

3) $$\frac{4x^2-4x-3}{2x^2+5x-12} = \frac{\cancel{(2x-3)}(2x+1)}{\cancel{(2x-3)}(x+4)} = \frac{2x+1}{x+4}$$

4) $$\frac{8x^2-12x}{2x^2+7x-15} = \frac{4x\cancel{(2x-3)}}{\cancel{(2x-3)}(x+5)} = \frac{4x}{x+5}$$

5) $$\frac{9x^2-3x}{5x^2+10x} = \frac{3x(3x-1)}{5x(x+2)} = \frac{3(3x-1)}{5(x+2)}$$