

$$\textcircled{15} \quad \frac{36}{x} + \frac{36}{x-6} = 5 \quad \text{CD: } x(x-6)$$

$$\frac{36(x-6)}{x(x-6)} + \frac{36x}{x(x-6)} = \frac{5x(x-6)}{x(x-6)}$$

$$36x - 216 + 36x = 5x^2 - 30x$$

$$-216 + 72x = 5x^2 - 30x$$

$$0 = 5x^2 - 102x + 216$$

$$x = \frac{102 \pm \sqrt{(-102)^2 - 4(5)(216)}}{2(5)}$$

$$x = \frac{102 \pm \sqrt{6084}}{10}$$

$$x = \frac{102 \pm 78}{10}$$

$$x = 18 \rightarrow \text{returning} = 12 \text{ mph}$$
$$x = 2.4 \rightarrow \text{returning} = \text{~~2.6~~}$$

doesn't make sense