

Formative Assessment #32 – Solving Absolute Value Equations

RF2.7: I can solve an equation with a single absolute value algebraically.

RF2.8: I can verify solutions to an absolute value equation and identify extraneous roots.

1. Solve for all possible solutions. *You do not have to verify your answers.*

a) $4|2x + 3| - 2 = -6$

b) $|x + 5| = 3x - 7$

2. Solve the absolute value equation. *Verify your answers, state the solutions and identify any extraneous roots.*

$$4|x^2 - 3x| + 7 = 47$$