Answer 41

41. If -3/(a - 3) = 3/(a + 2), then a = ?

$$\frac{-3}{(a-3)} = \frac{3}{(a+2)}$$

Cross multiply, but be sure to keep the parenthesis intact so the Distributive Property can be properly applied:

$$-3(a+2) = 3(a-3)$$
$$-3a - 6 = 3a - 9$$

Then simplify by adding both 3a and 9 to both sides

$$-6 + 9 = 3a + 3a$$
$$3 = 6a$$

Therefore a = ½ so answer C.