

True-False. Circle T or F to indicate the truth of each equation for all permissible values of the variable(s).

T F 1. $\frac{x+3}{y+3} = \frac{x}{y}$

T F 2. $\frac{(3x-2)(3x+4)}{(3x-2)(x+1)+5} = \frac{3x+4}{x+1+5}$

T F 3. $\frac{4x(x+5)}{3x} = \frac{4(x+5)}{3}$

T F 4. $\frac{a+b}{a-b} = -1$

T F 5. $\frac{x-2y}{2y-x} = -1$

T F 6. $\frac{4a+5}{3a+5} = \frac{4}{3}$

T F 7. $\frac{7+a}{7} = 1 + \frac{a}{7}$

T F 8. $\frac{9+3(a+2)}{7+3(a+2)} = \frac{9}{7}$

T F 9. $\frac{(a+2)(a+3)+4}{(a+3)(a-1)} = \frac{a+6}{a-1}$

T F 10. $2\left(\frac{a}{b}\right) = \frac{2a}{2b}$