

For each statement, identify if it is true or false. If the statement is false, describe the error and correct the statement.

Statement	True or False	Correction
1) $\frac{3}{a} + \frac{3}{b} = \frac{3}{a+b}$		
2) $\frac{a+b}{c+d} = \frac{a}{c} + \frac{b}{d}$		
3) $\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$		
4) $\frac{a}{b+c} = \frac{a}{b} + \frac{a}{c}$		

Statement	True or False	Correction
5) $\frac{10t+u}{10u+v} = \frac{t}{v}$		
6) $\frac{a}{b} = \frac{a^2}{b^2}$		
7) $\frac{a+b}{b} = a$		
8) $\frac{1}{a+b} + (a+b)^2 = a+b$		

Statement	True or False	Correction
9) $2a^{-1} = \frac{-1}{2a}$		
10) $a^{-2} = -a^2$		
11) $(a - b)^2 = a^2 - b^2$		
12) $(a + b)^2 = a^2 + b^2$		

Statement	True or False	Correction
13) $(a + b)^3 = a^3 + b^3$		
14) $\sqrt{a^2} = a$		
15) $\sqrt{a^2 + b^2} = a + b$		
16) $\sqrt{a^2 - b^2} = a - b$		

Statement	True or False	Correction
17) $\sqrt{a+b} = \sqrt{a} + \sqrt{b}$		
18) $\frac{1}{3}(-6)^3 = -2^3$		
19) $a^{\frac{2}{3}} = \frac{a^2}{a^3}$		
20) If $a + b = 0$, then either $a = 0$ or $b = 0$.		
21) If $x(x - 2) = 24$, then either $x = 24$ or $x - 2 = 24$.		
22) $a(bc) = (ab)(ac)$		

