8-28-13

3rd Trig

Solve for variable SAT

If $(2x-1)^5 = 9^5$, what is $10x-5$?

45

Simplifying

① $a^3 \cdot a^4$

$a \cdot a \cdot a \cdot a \cdot a \cdot a \cdot a = a^7$

② $(3a^2)(-2a^2)$

$3 \cdot a \cdot a \cdot -2 \cdot a \cdot a$

$-6a^4$

③ $(a^4)^2$

$a^4 \cdot a^4$

$aaaa \; aaaa = a^8$

④ $(-2a^2b^3)^2$

$-2a^2b^3 \cdot -2a^2b^3$

$-2aabbb \cdot -2aabbb$

$4a^4b^6$

⑤ $a^2 \cdot b^3 \cdot a \cdot b^3$

$a \cdot a \cdot bbb \cdot a \cdot bbb$

a^3b^6

⑥ $(-2a^4b)^3$

$-2a^4b \cdot -2a^4b \cdot -2a^4b$

$-2aaaab \cdot -2aaaab \cdot -2aaaab$

$-8a^{12}b^3$

⑦ $(2ab)(-2ab)$

$-4a^2b^2$

⑧ $(-3ab^{100})^2$

$-3ab^{100} \quad -3ab^{100}$

$9a^2b^{200}$

⑨ $(-2a^2b^3)^2$

$-2a^2b^3 \cdot -2a^2b^3$

$-2aabbb \cdot -2aabbb$

$4a^4b^6$

⑩ SAT If $x = 3(x+y)$, what is an expression for x in terms of y?

get x by itself

$x = 3(x+y)$

$x = 3x + 3y$

$-3x \quad -3x$

$\frac{-2x}{-2} = \frac{3y}{-2}$

$-\frac{3}{2}y$

8-26-13
4th Trig

Solve for a Variable SAT

If $2n-1=9$, what is $10n-5$?

45

Simplify

① $a^3 \cdot a^4$

$a \cdot a \cdot a \quad a \cdot a \cdot a \cdot a$

a^7

② $3a^2 \cdot -2a^2$

$3aa \cdot -2aa$

$-6a^4$

③ $(a^5)^2$

$a^5 \cdot a^5$

$aaaaa \quad aaaaa = a^{10}$

④ $(-4a^2b)^2$

$-4a^2b \cdot -4a^2b$

$-4aab \quad -4aab$

$16a^4b^2$

⑤ $a^4 \cdot b^2 \cdot a^{10} \cdot b^3$

$a^{14}b^5$

⑥ $(-3ab)(2ab)$

$-6a^2b^2$

⑦ $(-2a)(2a)$

$-4a^2$

⑧ $(-2xb^3)^3$

$-2xb^3 \quad -2xb^3 \quad -2xb^3$

$-2xbbb \quad -2xbbb \quad -2xbbb$

$-8x^3b^9$

SAT

⑨ If $x = 5(x+y)$, what is the expression for x in terms of y?

$x =$

$x = 5(x+y)$

$x = 5x + 5y$

$-5x \quad -5x$

$\frac{-4x}{-4} = \frac{5y}{-4}$

$x = -\frac{5}{4}y$