

Evaluate:  $x = -2$   $y = 3$   $z = 5$

①  $2(x-4)^2 + 3y - 2z$

②  $-3(-4^2 + 2xyz - 5x^3y^2z)$

③  $\left(\frac{8}{3}\right)^{-2}$

Simplify:

④  $\frac{x^{12} \cdot x^{18}}{x^{50}}$

⑤  $\frac{(2x^2y^3z)^4}{(10x^{-4}y^6z^{10})^2}$

⑥  $\frac{2x^{-4}y^{10}z^{-12}}{4^{-2}x^{10}y^6z^{-8}} \cdot \frac{-10^2x^{-4}y^{-6}z^{11}}{x^{16}y^{-2}z^{-8}}$

⑦  $P = 2l + 2w$   
 $l = ?$

⑧  $V = \frac{4}{3}\pi r^3$   
 $r = ?$

⑨  $C = 2\pi r$   
 $r = ?$

Solve:

⑩  $-\frac{2}{3}x + 5 \geq -6$

⑪  $-3(5x+6) + 8 \leq -10(-2x-7) - 3$

⑫  $8x + 1 \geq -19$

⑬  $\frac{-4(3x-5)}{-2} \geq 16$

⑭  $-18 \leq 2(3x-5) \leq 2$

⑮  $4x - 2(7x+4) < 6$  and  $3 + 7(2x+4) < 12$

⑯  $7x + 5 > 16$  or  $2(3x+6) + 8 < 1$

⑰  $|\frac{1}{2}x - 1| \leq 3$

⑱  $|11 + 6x| \leq 47$

⑲  $|2x+3| \geq -13$

⑳  $|3x-8| < -10$

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