

NCFE PRACTICE #6

① Multiply: $(x-5)(x^2+5x+25)$

② Which of the following is the solution for $3(4)^x = 15$?

A) $\frac{\log 15}{\log 4}$

C) $\frac{\log 3}{\log 4}$

B) $\frac{\log 5}{\log 4}$

D) $\frac{\log 3}{\log 15}$

③ Solve for x: $\frac{6x+20}{x^2} + \frac{1}{x} = \frac{3}{x}$

A) $x = 4$

C) $x = -5$

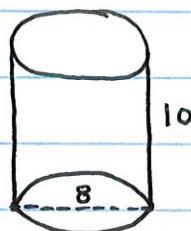
B) $x = -3$

D) NO sol.

④ Find the radius of a circle with Area = 153.86.

⑤ Divide:
$$\frac{8x^3 + 24x^2 - 5x - 15}{x+3}$$

⑥ Find the volume of the cylinder.



⑦ Convert $\frac{8\pi}{3}$ to degrees.

⑧ Multiply: $\left(\frac{1}{t^2}\right)\left(\frac{1}{t}\right)\left(\frac{3t^2}{4}\right)$

⑨ Find the diameter of the circle below.

$$x^2 + y^2 - 8x + 22y - 88 = 0$$

⑩ What is the $\cos 30^\circ$?