Answer the following. See how many you can remember.
Write in exponential form and solve (no calculator).

1. $\log_2 16 = x$

$2^x = 16$

$x = 4$

2. $\log_3 81 = x$

$3^x = 81$

$x = 4$

3. $\log_{25} 1 = x$

$25^x = 1$

$x = 0$

4. $\log_{16} 2 = x$

$16^x = 2$

$x = \frac{1}{4}$

5. $\log_2 \frac{1}{8} = x$

$2^x = \frac{1}{8}$

$x = -3$

6. $\log_9 \frac{1}{3} = x$

$9^x = \frac{1}{3}$

$x = -\frac{1}{2}$

7. $\log_x 8 = 3$

$\sqrt[3]{x^3} = \sqrt[3]{8}$

$x = 2$

8. $\log_x 16 = 2$

$\sqrt{x^2} = \sqrt{16}$

$x = \pm 4$

$x = 4$ bases only +

9. $\log_5 x = 2$

$5^2 = x$

$25 = x$

10. $\log_5 x = 3$

$5^3 = x$

$125 = x$