

Basic Skills Test

1. Simplify: $4 \tan\left(\frac{3\pi}{4}\right) + 2 \sin\frac{\pi}{6}$
2. If $\cos(\theta) = \frac{8}{17}$ and θ is in quadrant IV, then $\sin(\theta) =$
3. Find the y intercept of the line passing through (-2,4) and (4,5)
4. Solve $\log_3(x + 2) = 4$
5. If I put \$1000 in a bank account that earns 6% compounded annually, how much will I have in 20 years?
6. Solve $x^2 - 7 = 6x$
7. Sketch $y = \sqrt[3]{x + 2}$
8. Solve $5^x = 1000$
9. Write the equation of a circle centered at (4,-3) with radius of 5.
10. Simplify $8^{-\frac{1}{3}}$
11. The y coordinate of the point of intersection between $x+y=3$ and $x-y=5$ is
12. What is the period of $f(x)=3\sin(4x)+10$?

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