

# PRACTICE WORKSHEET PACK

MathMaster - 50+ Problems with Solutions

## ALGEBRA PROBLEMS

1. Solve for  $x$ :  $3x + 7 = 22$     Answer:  $x = 5$
2. Factor:  $x^2 - 9$     Answer:  $(x+3)(x-3)$
3. Simplify:  $2(3x - 4) + 5x$     Answer:  $11x - 8$
4. Solve:  $x^2 - 5x + 6 = 0$     Answer:  $x = 2, 3$
5. Find slope:  $(2,3)$  and  $(6,11)$     Answer:  $m = 2$

## GEOMETRY PROBLEMS

6. Find area of triangle:  $b=10, h=8$     Answer: 40 sq units
7. Find circumference:  $r=7$     Answer:  $14\pi$  or  $\sim 43.98$
8. Find missing angle: 45, 60,  $x$     Answer: 75 degrees
9. Pythagorean:  $a=6, b=8, c=?$     Answer:  $c = 10$
10. Area of circle:  $r=5$     Answer:  $25\pi$  or  $\sim 78.54$

## TRIGONOMETRY PROBLEMS

11. Find  $\sin(30)$     Answer:  $1/2$  or  $0.5$
12. Find  $\cos(60)$     Answer:  $1/2$  or  $0.5$
13. If  $\sin(x) = 3/5$ , find  $\cos(x)$     Answer:  $4/5$
14. Evaluate  $\tan(45)$     Answer: 1
15. Find  $\sec(0)$     Answer: 1

## CALCULUS PROBLEMS

16.  $d/dx[x^4]$     Answer:  $4x^3$
17.  $d/dx[3x^2 + 2x]$     Answer:  $6x + 2$
18.  $\int 2x \, dx$     Answer:  $x^2 + C$
19.  $d/dx[\sin(x) + \cos(x)]$     Answer:  $\cos(x) - \sin(x)$
20.  $\int x^2 \, dx$     Answer:  $x^3/3 + C$

**... 30+ more problems available in the full version!**

Visit MathMaster for interactive practice and detailed solutions.