

**Algebra Quiz**  
Intermediate Microeconomics

1.  $3x + 2y = 12$   
 $2x - 1 = y$        $x = ?$     $y = ?$

2.  $\frac{2+x}{x} = 3$        $x = ?$

Rewrite/simplify the following expressions:

3.  $x^2 x^4 = ?$

4.  $(y^2)^3 = ?$

5.  $(xy)^2 = ?$

6.  $\left(\frac{x}{y}\right)^2 = ?$

7.  $y^{\frac{1}{2}} = ?$

8.  $\frac{1}{Z^{-2}} = ?$

9.  $\frac{x^2}{x^5} = ?$

10.  $\frac{y^4}{y^2} = ?$

11.  $\frac{x^{\frac{1}{2}} y^{\frac{-1}{3}}}{x^{\frac{-1}{2}} y^{\frac{2}{3}}} = ?$

**Answers to Algebra Quiz**  
Intermediate Microeconomics  
Chapter references are for *Forgotten Algebra*

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|-----|--|----------------------|
| 1.  | $x = 2$<br>$y = 3$                               | Unit 26              |
| 2.  | $x = 1$  | Unit 5               |
| 3.  | $x^6$  | Unit 8               |
| 4.  | $y^6$  | Unit 8               |
| 5.  | $x^2y^2$   | Unit 8               |
| 6.  | $x^2y^{-2}$                                      | Unit 8               |
| 7.  | $\frac{1}{y^{\frac{1}{2}}} = \frac{1}{\sqrt{y}}$ | Unit 9               |
| 8.  | $Z^2$  | Unit 9               |
| 9.  | $x^{-3} = \frac{1}{x^3}$                         | Unit 10              |
| 10. | $y^2$  | Unit 10              |
| 11. | $\frac{x}{y} = xy^{-1}$                          | Units 13, 14, and 15 |

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Review units 5, 8, 9, 10, 11, 12, 13, 14, 15, 24, and 26.