

Algebra - Substitution - Answers

Single variable, linear - Ex1

The value provided for the unknown variable in each of the expressions which follow should be substituted and the resulting expression evaluated to give a simple numeric result. Calculators should *not* be used in expression evaluation.

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|---------------------------------------|----|---|----|
| 1. $x + 7$
where $x = 3$ | 10 | 11. $(y - 7) \times 3$
where $y = 11$ | 12 |
| 2. $3 + x$
where $x = 7$ | 10 | 12. $3p - 11 + 2p$
where $p = 3$ | 4 |
| 3. $2y + 7$
where $y = 5$ | 17 | 13. $5r - (2r - 7)$
where $r = 2$ | 13 |
| 4. $3y + 11 - y$
where $y = 3$ | 17 | 14. $7z + 11 - 2(z - 3)$
where $z = 1$ | 22 |
| 5. $4a - 12$
where $a = 5$ | 8 | 15. $4c - 3c + 11$
where $c = 17$ | 28 |
| 6. $6q - 23 + 4q$
where $q = 3$ | 7 | 16. $5d - 23 + 3d$
where $d = 3$ | 1 |
| 7. $7x - 3 \times 5$
where $x = 3$ | 6 | 17. $6x - (3 - 4x)$
where $x = 1$ | 7 |
| 8. $5 + 7 - 2x$
where $x = 6$ | 0 | 18. $x - (3x - 11)$
where $x = 2$ | 7 |
| 9. $7(3 - x)$
where $x = 2$ | 7 | 19. $(4x - 3) \times (4 - 3x)$
where $x = 1$ | 1 |
| 10. $11 + (7 - y)$
where $y = 4$ | 14 | 20. $(5x - 3) / (4 - 3x)$
where $x = 1$ | 2 |