

Algebra I Homework #17

- 1) Simplify: $\sqrt[3]{2662x^3y^8a^4}$
- 2) Find the slope of the line that goes through the points (-1,-3) and (-7,5)
- 3) Simplify: $5\sqrt{98} - \sqrt{50} - 2\sqrt{243}$
- 4) Find the equation of the line that goes through the points (-6,-7) and (-6,-9)
- 5) Simplify: $2xy^2a^3\sqrt{72x^6y^3a} \cdot 3x^2ya\sqrt{54x^2y^7a^3}$
- 6) Factor: $4x^3 + 52x^2 - 120x$
- 7) Factor: $36x^2a - 60xya + 27xa - 45ya$
- 8) Factor: $6x^2y + 78xay + 216ya^2$
- 9) Factor: $72x^2y - 84xy^2 - 108xya + 126y^2a$
- 10) Factor: $4y^4x - 56y^3x + 192y^2x$
- 11) Factor: $21xy + 6x^2 - 35y - 10x$
- 12) Factor: $8x^4ay - 48x^3ay^2 - 576x^2ay^3$
- 13) Factor: $24x^2y - 12x^2 - 4xy + 2x$
- 14) Factor: $3x^3 - 90x^2 + 648x$
- 15) Factor: $30axy^2 + 20axy + 24xy^2 + 16xy$
- 16) Factor: $x^2 + 5x - 6$
- 17) Factor: $60x^3a - 84x^2ya - 50x^2a + 70yax$
- 18) Factor: $4y^2x + 12xy - 216x$
- 19) Factor: $21x^2a^2 + 28xya^2 + 27xa^3 + 36ya^3$
- 20) Factor: $3a^3y - 219a^2y + 216ay$

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