

## Algebra I Homework #18

- 1) Factor:  $6x^2a - 24xa - 192a$
- 2) Simplify:  $\sqrt[4]{1250x^5y^{12}a^9}$
- 3) Simplify:  $5x^2y^3\sqrt{343x^3y^5} \cdot 4x^3y\sqrt{504x^6y^3}$
- 4) Factor:  $28x^2 - 8xy - 35x + 10y$
- 5) Simplify:  $3\sqrt{338} + 2\sqrt{108} + 7\sqrt{363}$
- 6) Factor:  $18x^3y - 21x^2y - 72xy$
- 7) Factor:  $98x^3a - 50xa$
- 8) Factor:  $72x^2a - 108xa + 40a$
- 9) Factor:  $162x^5y^3 - 32xy^7$
- 10) Factor:  $64x^2y + 120xy - 54y$
- 11) Factor:  $12x^2 + 27$
- 12) Factor:  $120x^3 + 55x^2 + 5x$
- 13) Factor:  $18y^3 - 2y$
- 14) Factor:  $72x^2 - 13xy - 20y^2$
- 15) Factor:  $625x^5 - x$
- 16) Factor:  $48y^2x - 180yx + 162x$
- 17) Factor:  $686a^3 - 126a$
- 18) Factor:  $12x^2 - 26x + 16$
- 19) Factor:  $384x^3ya^2 - 54xy^3a^2$
- 20) Factor:  $24x^3y - 54x^2y + 27xy$

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