

# Precalc Homework #3 – Do in your notes for self-grade

Due Friday 8/8

Homework – Precalculus Textbook pages A36 – A37

#99, 101, 106, 112, 113, 127, 141, 147, 155, 162, 173, 177, 189, 197

Factor out the common factor

99.  $2x^3 - 6x$       101.  $3x(x - 5) + 8(x - 5)$

Find the greatest common factor such that the remaining factors have only integer coefficients.

106.  $\frac{1}{3}y + 5$

Completely factor the difference of two squares

112.  $x^2 - 64$       113.  $48y^2 - 27$

Factor the perfect square trinomial

127.  $9u^2 + 24uv + 16v^2$

Factor the sum or difference of cubes

141.  $u^3 + 27v^3$

Factor the trinomial

147.  $s^2 - 5s + 6$       155.  $5x^2 + 26x + 5$

Factor by grouping

162.  $5x^3 - 10x^2 + 3x - 6$

Completely factor the expression

173.  $6x^2 + x - 2$       177.  $x^3 - 16x$

189.  $x^4 - 4x^3 + x^2 - 4x$       197.  $5x^3 + 40$