



HOMEWORK SHEET

Mrs. Staples - MHF 4U

1. Factor each of the following:

- (a) $5(x-1)-2x(1-x)$ (b) cx^2+d-dx^2-cx (c) x^3-2x^2-x+2 (d) x^2-4y^2-4y-1
(e) $2x^2+7x+3$ (f) $2w^2+9w+10$ (g) $49x^4y^2-4w^2$ (h) $(3x-2y)^2-25$

2. More Factoring!!!!

- (a) $x^2+6xy+9y^2-36$ (b) $x^2-y^2-14y-49$ (c) $2a^3b-4a^2b+2ab$ (d) $-3x^2+27$
(e) $2x^3-50xy^2$ (f) $36s^3t+120s^2t^2+100st^3$ (g) $1-16y^4$ (h) $(x-2)^4-16$

3. Solve the quadratic function $3=6x^2-7x$

4. Determine the equations of the tangent lines (in $y=mx+b$ form) for the function $f(x)=2x^2+9x-5$ at each of the x-intercepts.



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