

MATH 1090 - SUMMER 2007 - ASSIGNMENT #4

LINEAR AND QUADRATIC FUNCTIONS AND THEIR GRAPHS

- (1) Pages 137-139 Ex 1, 3, 5, 7, 12, 13, 16, 18, 24, 30, 34.
- (2) Find the equations of the lines:
 - (a) It passes through the point $(2, -8)$ and is parallel to $y = \frac{2-x}{3}$.
 - (b) It is perpendicular to the line $y = 4 - \frac{2}{3}x$ and has x-intercept equal to 3.
- (3) Page 146: 6, 8, 9, 10, 14, 18, 22, 29, 30, 31, 38.
- (4) (Appeared in a previous exam) Let $f(x) = 4x^2 + 3x - 5$ and $g(x) = 3(x - 2)^2 + 4$ and solve the following problems:
 - (a) Find the vertices of f and g .
 - (b) How should you shift f so that f would have the same vertex as g ?