

MATH 121 Dias Exam 2, Spring 2008 Answers

1. (a) $p(100) = 116,000$
(b) $p(200) = 156,000$
2. (a) $P(x) = 2(x+3)(x+1)(x-1)^2$
(b) use calculator
(c) i. $x = 0, 2, 4$
ii. $G(3) = 6$
3. (a) $x^2 + 9$
(b) $3i, -3i, -1, 2$
4. (a) all x except $x = 3, -2$
(b) $x = 3$
(c) $x = -2$
(d) $y = 2$
(e) $x = 2$
(f) $f(0) = -\frac{4}{3}$
5. (a) $x \geq 3$ or $x \leq -\frac{5}{3}$
(b) $-3 \leq x \leq -2$
6. (a) x^2
(b) $5c + 3d$
7. (a) 14.207 years
(b) 13.863 years