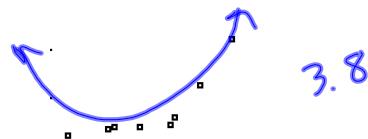


P.137 #49

$$\frac{(2+i)(2+i)}{(2-i)(2+i)} = \frac{4+4i+i^2}{4-i^2} = \frac{3+4i}{5}$$

$$\boxed{\frac{3}{5} + \frac{4}{5}i}$$

- 2-8 Quadratic Models
- Ex. 1
- Decide whether the set of data could best be modeled by a linear model or a quadratic model.
  - Find a model that best fits the data.
  - Use the model to predict the value of  $y$  when  $x = 2$ .

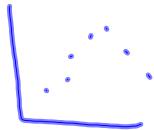


0.2	1.2
0.6	1.36
0.65	1.39
0.9	1.4
1.2	1.44
1.24	1.6
1.5	2.25
1.8	3.24

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- Ex. 2
- Decide whether the set of data could best be modeled by a linear model or a quadratic model.
  - Find a model that best fits the data.
  - Use the model to predict the value of  $y$  when  $x = 21$ .



x	y
0	0
1	10
5	36
8	89
11	140
15	124
19	112

$$y = -56x^2 + 17.4x - 9.4$$

$$91 - 109$$

Homework  
p.169  
#1-15 odds

Sep 30-8:31 AM

Sep 30-8:35 AM