

Math 01, Homework 3 on Sections 2.3 - 2.8, 3.1 - 3.2

Hand in by Wed, Mar 2 at the start of class.

Write all your working out and answers on a separate sheet. It is very important that you show clearly any work you had to do to get the answer. These first ten questions are 2 points each and **the answers are on page 2.**

- (1) Evaluate: (a) $-93 + (-28)$, (b) $-43 + 27$
 - (2) Compute: (a) $-100 - 20$, (b) $56 - (-19)$
 - (3) Find: $-11(-9)$
 - (4) Calculate: $(-117) \div 9$
 - (5) Calculate: $(-187) \div (-11)$
 - (6) Divide: (a) $0 \div (-6)$, (b) $(-6) \div 0$, (c) $0 \div 0$
 - (7) Compute: (a) $(-4)^4$, (b) $-(-2)^6$, (c) 99^0
 - (8) Evaluate: (a) $\sqrt{16}$, (b) $-\sqrt{16}$, (c) $\sqrt{-16}$
 - (9) Use a rectangle or circle to represent $5/6$
 - (10) Use rectangles or circles to represent $7/6$
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These next eight questions are 2 points each. Show clearly all your working out and reasoning.

- (11) Evaluate: (a) $-48 + (-77)$, (b) $-27 + 43$
- (12) Compute: (a) $-99 - 98$, (b) $0 - (-100)$
- (13) Find: $10(-234)$
- (14) Calculate: $(-169) \div (-13)$
- (15) Compute: (a) $(-1)^{15}$, (b) $-(-2)^3$, (c) 1^0
- (16) Evaluate: (a) $\sqrt{36}$, (b) $-\sqrt{36}$, (c) $\sqrt{-36}$
- (17) Use a rectangle or circle to represent $3/5$
- (18) Use rectangles or circles to represent $12/5$

Answers to questions (1)-(10):

(1) (a) -121 , (b) -16

(2) (a) -120 , (b) 75

(3) 99

(4) -13

(5) 17

(6) (a) 0 , (b) undefined, (c) undefined

(7) (a) 256 , (b) -64 , (c) 1

(8) (a) 4 , (b) -4 , (c) not a signed number (so undefined for now)

(9) A rectangle representing $5/6$



(10) Rectangles representing $7/6$

