

**Math 05, Homework 2 on Sections 2.4 - 3.1**  
**Hand in by Wed, Feb 17 at the start of class.**

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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) Multiply:   **(a)**  $(-7)(8)$ ,   **(b)**  $(-8)(-8)$
- (2) Find:   **(a)**  $-4(-5)$ ,   **(b)**  $24 \div (-3)$
- (3) Divide:    $(-2.4) \div (-0.03)$
- (4) Multiply:    $\left(\frac{2}{7}\right) \left(-\frac{7}{8}\right)$
- (5) Calculate:   **(a)**  $(-6)^2$ ,   **(b)**  $-6^2$ ,   **(c)**  $-(-6)^2$
- (6) Calculate:   **(a)**  $\sqrt{64}$ ,   **(b)**  $-\sqrt{64}$ ,   **(c)**  $\sqrt{-64}$
- (7) Find:    $3 \cdot 2^4 - 4 + 4$
- (8) Evaluate:    $3 + 4(1 - 4)^3$
- (9) Compute:    $2(1 - 4) - 4 \div 2 \cdot 2$
- (10) Compute:    $\frac{-2 + 6}{-2 + 3}$
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These next eight<sup>1</sup> questions are 2 points each. Show clearly all your working out and reasoning.

- (11) Multiply:   **(a)**  $(-6)(7)$ ,   **(b)**  $(-3)(-9)$
- (12) Find:   **(a)**  $(5.2)(-4.3)$ ,   **(b)**  $-20 \div (-5)$
- (13) Find:   **(a)**  $1(-10)$ ,   **(b)**  $0 \div (-9)$
- (14) Calculate:   **(a)**  $-3^4$    **(b)**  $\sqrt{81}$
- (15) Evaluate:    $9 \cdot 6 \div 3 \cdot 3$
- (16) Find:    $3 - 4(2 \cdot 2 - 5)^2$
- (17) Compute:    $3 + \sqrt{2^2 + 16 + 9} - 4$
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<sup>1</sup>One more question on the next page!

(18) Compute:  $4\left(-\frac{3}{10}\right)^2 - \frac{1}{100}$

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**Answers to questions (1)-(10):**

(1) (a)  $-56$ , (b)  $64$

(2) (a)  $20$ , (b)  $-8$

(3)  $80$

(4)  $-\frac{1}{4}$

(5) (a)  $36$ , (b)  $-36$ , (c)  $-36$

(6) (a)  $8$ , (b)  $-8$ , (c) Not a real number

(7)  $48$

(8)  $-105$

(9)  $-10$

(10)  $4$