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CHAPTER 1 ASSIGNMENT

NAME: _____

Pre-Calculus 11 Block D

Simplify the expressions

1. $-|-9|$ **(1 mark)**

1.

2. $|2|-|3|$ **(1 mark)**

2.

3. $|-3-2\times5|$ **(1 mark)**

3.

4. $|7-3\times5|$ **(1 mark)**

4.

5. $-7|-4+25\div8|$ **(1 mark)**

5.

Find the solution(s) for *x*.

6. $|3x-5|=1$ **(2 marks)**

6.

7. $|8-x|=11$ **(2 marks)**

7.

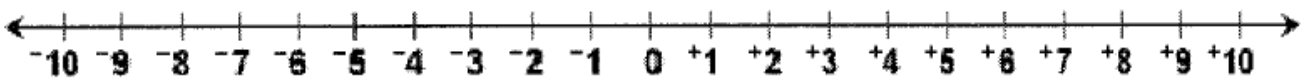
8. $\left|\frac{1}{3}x-2\right|=5$ **(2 marks)**

8.

Solve and graph the solution(s) for *x*.

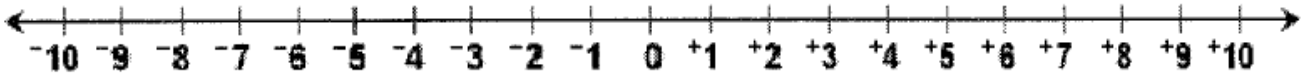
9. $|4x + 1| < 5$ **(3 marks)**

9.



10. $|-9x| = x^2$ **(3 marks)**

10.



Order the Radicals from smallest to largest.

11. $4.3, \sqrt{8}, \sqrt{20}, 5$ **(1 mark)**

11.

12. $\sqrt[3]{8}, \sqrt[3]{-20}, -2.5, \sqrt{5}$ **(1 mark)**

12.

Simplify the Radical expressions.

13. $5\sqrt{48}$ **(1 mark)**

13.

14. $7x\sqrt[3]{1250}$ **(1 mark)**

14.

15. $3xy\sqrt{\frac{4x^2y^5}{8y^7}}$ **(1 mark)**

15.

16. $\sqrt{90x^2y}$ **(1 mark)**

16.

Write each mixed radical as an entire radical.

17. $2a^3\sqrt{3b^3}$ **(1 mark)**

17.

18. $3x^2\sqrt[3]{\frac{y}{9x^6}}$ **(1 mark)**

18.

Perform the indicated operation and simplify.

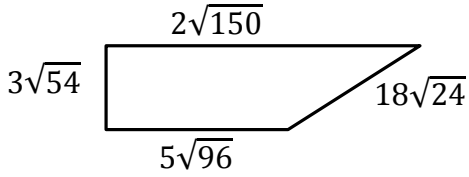
19. $\sqrt{90}+\sqrt{160}$ **(2 marks)**

19.

20. $\sqrt{54}-3\sqrt{6}$ **(2 marks)**

20.

21. Find the perimeter. **(2 marks)**



21.

22. $\sqrt{16x}-7+\sqrt{4x}$ **(2 marks)**

22.

23. $\sqrt[3]{7x^3} - 2(x\sqrt[3]{7} - 6)$ **(2 marks)**

23.

Perform the indicated operation and simplify.

24. $\left(3\sqrt{2x}\right)\left(\sqrt{3x}\right)$ **(2 marks)**

24.

25. $(3\sqrt{5x})(\sqrt{7x})$ **(2 marks)**

25.

26. $2\sqrt[3]{x}(3x\sqrt[3]{6x^2} + \sqrt[3]{7})$ **(2 marks)**

26.

27. $\frac{\sqrt{70}}{\sqrt{5}}$ **(2 marks)**

27.

28. $\frac{2 - x}{\sqrt{4}+x}$ **(2 marks)**

28.

End of Test