Calculus Readiness Test

1. If	and	, then ———	 =		
	a) - –	b)	c) -—	d) —	e) —

a) -8 b) -- c) 2 d) - e) 9

, x =

2. In the system of equations

5.

3. In a room with 35 men, 80% of the occupants are women. How many women are in the room?

4. The inequality is equivalent to

a)
$$x < -7$$
 or $x > 7$ b) $1 < x < 7$ c) $-3 < x < 3$

d)
$$x < -1 \text{ or } x > 7$$
 e) $x < 1 \text{ or } x > 7$

a) 3 b) 3 c) — d) — e) —

6. For what value of *t* does — ?

a) -- b) -- c) -- d) - e) no solution

7. If , then
$$x =$$
 a) - b) - c) - d) - e) -

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- 9. The number is between
- a) 0 and 1 b) 1 and 2 c) 2 and 3 d) 3 and 4 e) 4 and 5
- 10. What is the radian measure of an angle whose degree measure is 72 ?
 - a) b) c) d) e)

- 11. If then =
 - a)
- b) c)
- d)

- e)

- a) b) c) e) e)

- 13. If and then =
 - a) - b) -- c) 0 d) 2 e) -

- 14. The inequality is equivalent to which of the following?

 - a) x < 4 or x > -2 b) x < -4 or x > 2 c) -4 < x < 2
 - d) -2 < x < 4 e) x < 4
- 15. What number must be added to to form a perfect square?

 - a) b) c) d) 3 e) 9

- 16. =

- a) -- b) -- c) -- e) ---

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17.	 =

a)

b)

c)

d)

e)

18. The perimeter of a rectangular field is P feet. The width of the field is 200 feet less than its length. In terms of P, what is the length of the field in feet?

a) — b) — c) — d) — e) —

19. Which of the following are the roots of

a) ____ b) ___ c) ___ d) ___ e) ___

20. If – and then x =

a) — b) — c) — d) — e) —

21. If – then w =

a) –

b) — c)

22. If then its inverse function is

a)

b)

c) — d) – e) —

23.

a) 3

b) _

c)

_ d)

24.

a)

b)

c)

d)

e)

25. What is the area of the region bounded by the graph of they x-axis, and the vertical lines x = 3 and x = 5?

a) 2

b) 4

c) 7

d) 14 e) 28