Math 124 - Answers to preliminary test

There were two versions of the test - exam A and exam B.

Exam A

1.

A. $y^2 + 2y + 1$

B. x^4

C. $8(x+2)^3$

D. $\frac{x}{1+x}$

E. e^{2t}

F. $Ax + \frac{B}{x}$

G. $\log(MN)$

H. $\frac{1}{6}z^{-1}$ or $(6z)^{-1}$

I. 0

2.
$$\frac{-5}{2+n}$$

3.
$$\frac{8}{\sqrt{t+2}}$$

4. $x = -6, 3$

5. $w = 1/2$

6.
$$L = \frac{T^2 g}{(2\pi)^2}$$

7. $p = \sqrt{3}, -\sqrt{3}, -5$

8. $h = \sqrt[3]{10}$ or $(10)^{1/3}$

9. $t = 0, -9$

10.
$$y = \frac{5x - 2}{x^2 - 3}$$

Exam B

1.

A. $Ax + \frac{B}{x}$

B. $\log(MN)$

C. $\frac{1}{6}z^{-1}$ or $(6z)^{-1}$

D. 0

E. $y^2 + 2y + 1$

F. x^4

G. $8(x+2)^3$

H. $\frac{x}{1+x}$

I. e^{2t}

2.

$$\frac{-4}{3+n}$$

3.

$$\frac{11}{\sqrt{t+4}}$$

4. $p = \sqrt{5}, -\sqrt{5}, -3$

5. $x = -7, 3$

6. $w = 2/5$

7.

$$L = 2\pi\sqrt{\frac{L}{g}}$$

8. $h = \sqrt[3]{10}$ or $(10)^{1/3}$

9. $t = 0, -4$

10.

$$y = \frac{5x - 2}{x^2 - 3}$$