# Question 01

Answer is b.

# Question 02

Answer is a.

# Question 03

Answer is a.

# Question 04

Answer is b.

# Question 05

Answer is c.

# Question 06

Answer is a.

# Question 07

Answer is a.

# Question 08

## Code

clc

clear all

close all

warning off

years=[2006 2007 2008 2009 2010 2011 2012 2013];

sales=[384.7 378.8 405.6 408.2 421.8 447.0 469.2 476.2];

% part a

part\_a=polyfit(years,sales,2);

disp(['Fit-second degree polynomial coefficient is :',num2str(part\_a)])

% part\_b

part\_b=polyval(part\_a,2019);

disp(['Sale in 2019 is $',num2str(part\_b)])

% part\_c

plot(years,sales,'o',2019,part\_b,'o')

xlabel('years')

ylabel('sales')

title('sales in years')

hold on

grid on

plot([years 2019],[sales part\_b])

legend ('data plot','predict plot')

## Output



## Graph

